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TO: John Sanders, Ph.D., Chief
Environmental Monitoring Branch
Department of Pesticide Regulation

FROM: Jeff Cook, Chief
Quality Management Branch
Monitoring and Laboratory Division

DATE: January 15, 2004

SUBJECT: FINAL REPORT FOR THE 2001 AMBIENT AIR MONITORING FOR CHLOROPICRIN AND METAM SODIUM BREAKDOWN PRODUCTS IN MONTEREY AND SANTA CRUZ COUNTIES

Attached is the final report "Ambient Air Monitoring for Chloropicrin and Breakdown Products of Metam Sodium in Monterey and Santa Cruz Counties –Summer 2001." The report and separate volume of appendices for the report have also been forwarded to Randy Segawa and Shifang Fan of your staff. We received your April 29, 2003, comments and have made the requested changes.

If you or your staff have questions or need further information, please contact me at (916) 322-3726 or Kevin Mongar at (916) 322-2449.

Attachment/Separate Appendices

cc: See next page

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California Environmental Protection Agency

Air Resources Board

Ambient Air Monitoring for Chloropicrin and Breakdown Products of Metam Sodium in Monterey and Santa Cruz Counties

Fall 2001

Prepared by:
Operations Planning and Assessment Section
Quality Management Branch
Monitoring and Laboratory Division

Project No. P-01-004

December 23, 2003

Monitoring Report Approval

Title: Ambient Air Monitoring for Chloropicrin and Breakdown Products of Metam Sodium in Monterey and Santa Cruz Counties - Fall 2001

Project Lead: Kevin Mongar, Air Pollution Specialist

Prepared by: Yun Pan-Huang, Air Pollution Specialist

Approval: The following monitoring report has been reviewed and approved by the Monitoring and Laboratory Division.

Signatures:

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Executive Summary

Ambient Air Monitoring for Chloropicrin and Breakdown Products of Metam Sodium in Monterey and Santa Cruz Counties - Fall 2001

In June 2000, the California Department of Pesticide Regulation (DPR) requested that the Air Resources Board (ARB) conduct ambient air monitoring during 2001 for the soil fumigants chloropicrin (TCNM) and two breakdown products of metam sodium (methyl isothiocyanate (MITC) and methyl isocyanate (MIC)). Monitoring was conducted in Monterey and Santa Cruz Counties from September 8, 2001, through November 8, 2001, to coincide with the primary use of the soil fumigants prior to the planting of strawberries. The sampling site selection specifically focused on areas of historic use of these fumigants prior to plantings. Coincident monitoring conducted during 2001 for the fumigants methyl bromide and 1,3-dichloropropene (also known as Telone II or Telone) using canisters has been described in a separate report (*Ambient Air Monitoring for Methyl Bromide and 1,3-Dichloropropene in Monterey and Santa Cruz Counties, Fall 2001, March 29, 2002*). Cartridge sampling for fumigants in Kern County has also been described in a separate report (*Ambient Air Monitoring for Chloropicrin and Breakdown Products of Metam Sodium in Kern County - Summer 2001, November 2003)*. Similar monitoring studies for methyl bromide and 1,3-dichloropropene were also conducted in Monterey, Santa Cruz, and Kern Counties during the year 2000.

Ambient air samples were collected at 4 sites in Monterey County and 2 sites in Santa Cruz County. The cartridge monitoring study included 192 individual sampling periods (6 sites x 32 sampling days). Samples of 24 hours duration were collected randomly over the full 7-day week during the sampling period (usually 4-sample periods/week). Results for 8 of the samples (3 chloropicrin, 3 MITC, and 2 MIC) were invalidated due to the sampling flow rate being outside the control limits of $\pm$ 25%. This flow rate instability was often times due to moisture in the resin cartridges from rain or fog.

Chloropicrin Results

Daily concentrations of chloropicrin ranged from <MDL to as high as 14,000 nanograms per cubic meter (ng/m^3) (2100 pptv) of sampled air. The highest concentration was measured at the La Joya Elementary School in the town of Salinas.

Eight-week average concentrations of chloropicrin ranged from 406 ng/m^3 (60 pptv) to 2270 ng/m^3 (340 pptv). The highest average was also measured at the La Joya Elementary School site.

Of the 192 samples collected, 149 were found to be above the estimated quantitation limit, (EQL or reporting limit) of 152 ng/m^3 (23 pptv). Thirty-three were found to have detectable results (Det) below the EQL but equal to or above the method detection limit (MDL) and 7 were below the MDL. Three samples were invalid.

MITC Results (Metam Sodium breakdown product)

Of the 192 samples collected, only three samples had detectable concentrations of MITC. One had a concentration of 0.43 $\mu g/m^3$ (150 pptv) and two had detectable results below the EQL of 0.42 $\mu g/m^3$ (Det). These three samples were collected at Salsipuedes Elementary School in Watsonville. Results for 186 samples (97%) were below the MDL and three samples were invalid.

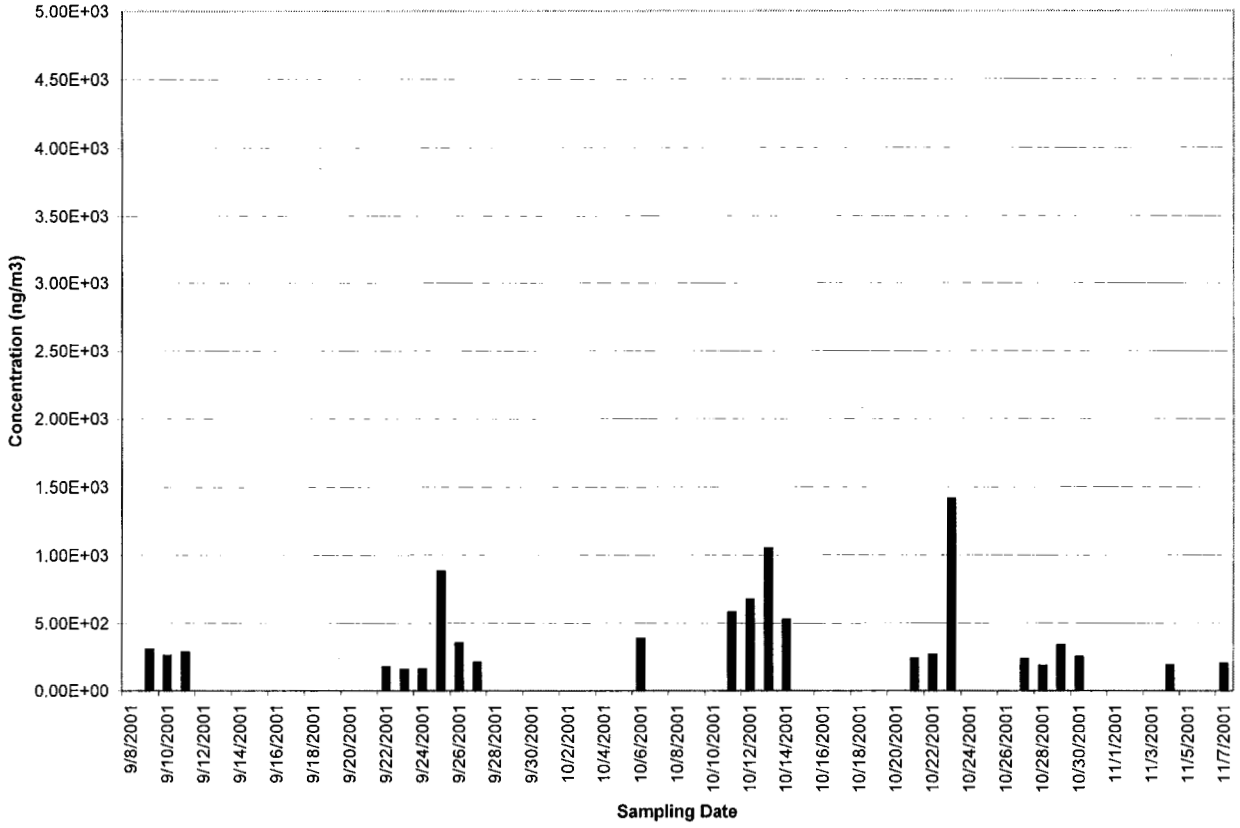
MIC Results (Metam Sodium breakdown product)

Of the 192 samples collected, none had results for MIC above the EQL (reporting limit) of 0.45 $\mu g/m^3$. Four samples had detectable results below the EQL (Det). Results for 186 samples (97%) were below the MDL and two samples were invalid.

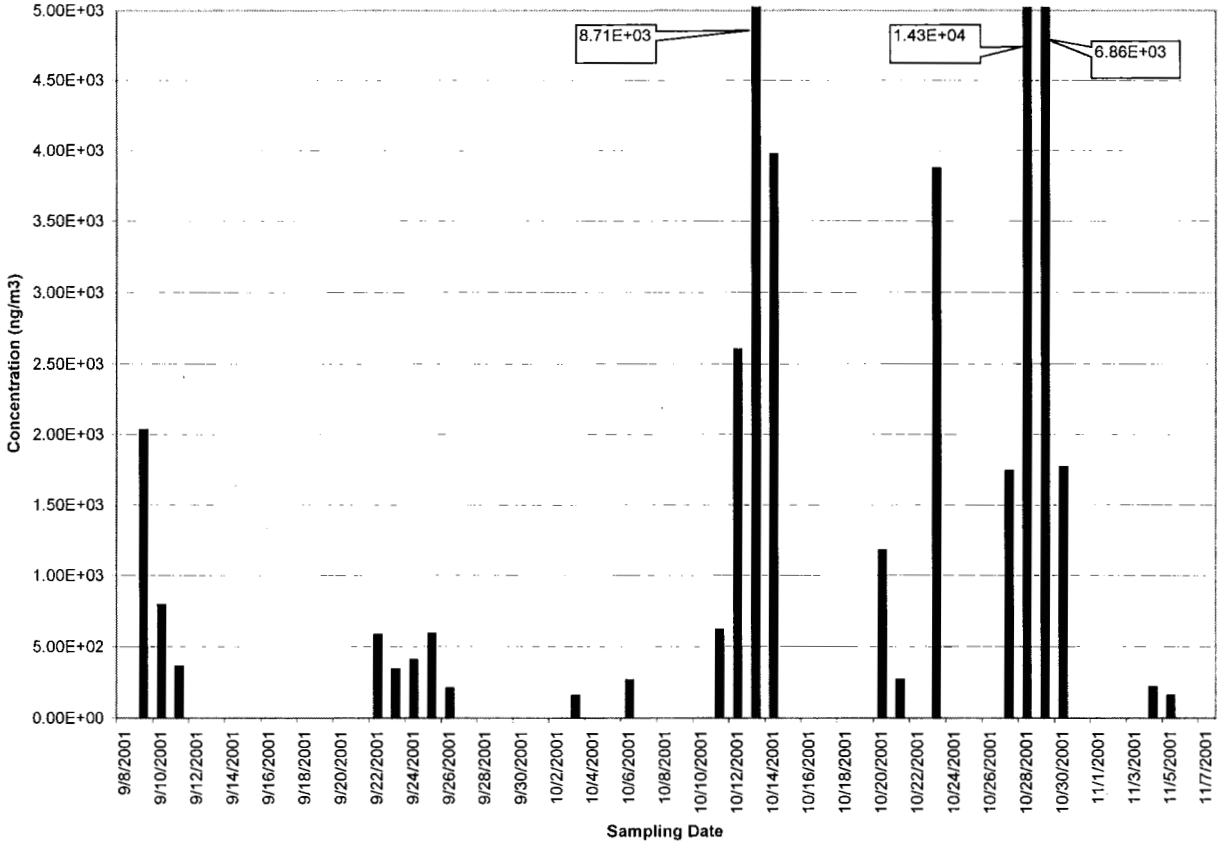
Monitoring Results Bar Graphs

Chloropicrin results at each site are presented in bar graphs (pages iii through v). There is only one sample that had a result above the EQL for MITC and all samples had results below the EQL for MIC. Therefore, MITC and MIC results have not been presented graphically.

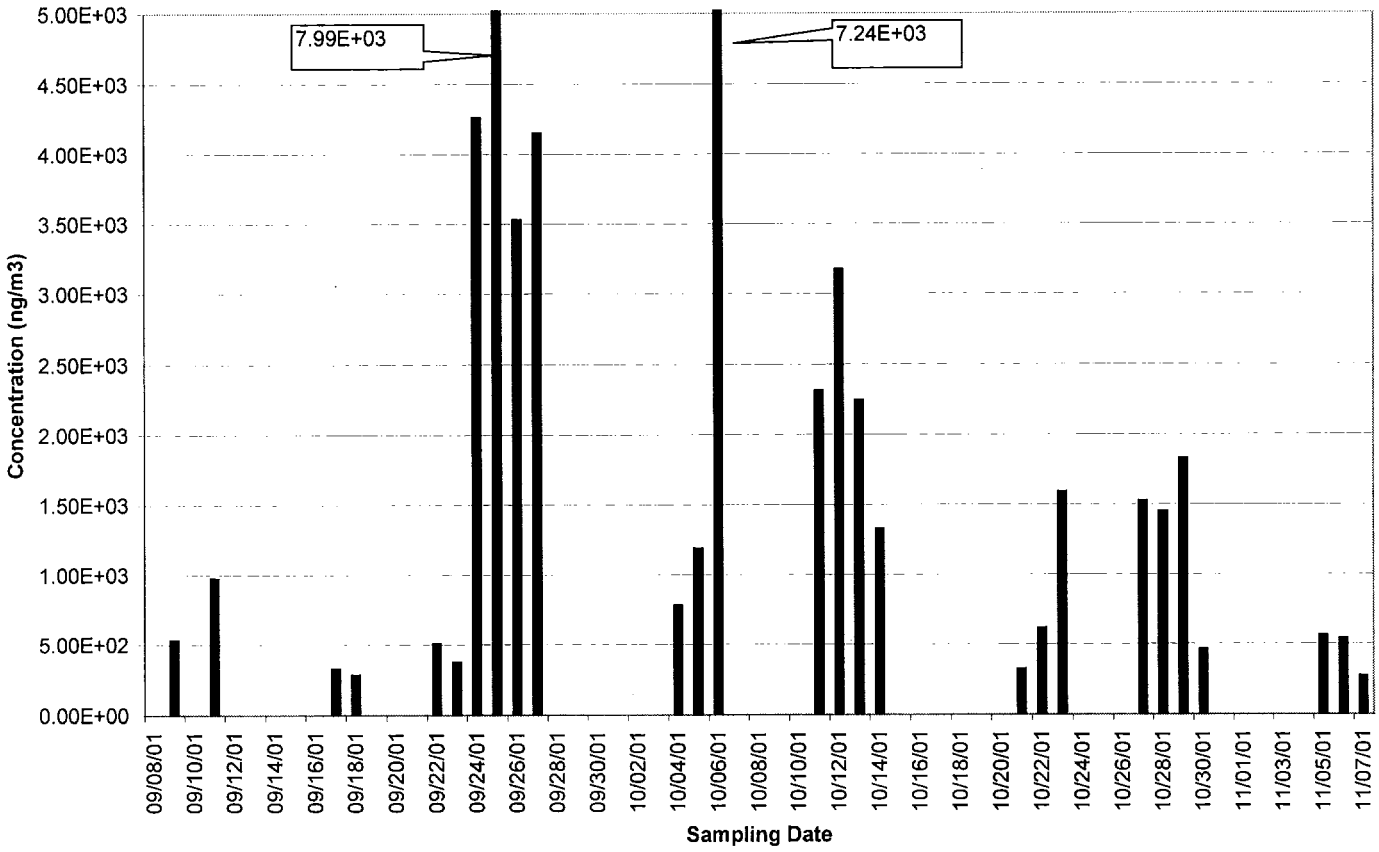
Chloropicrin at CHU



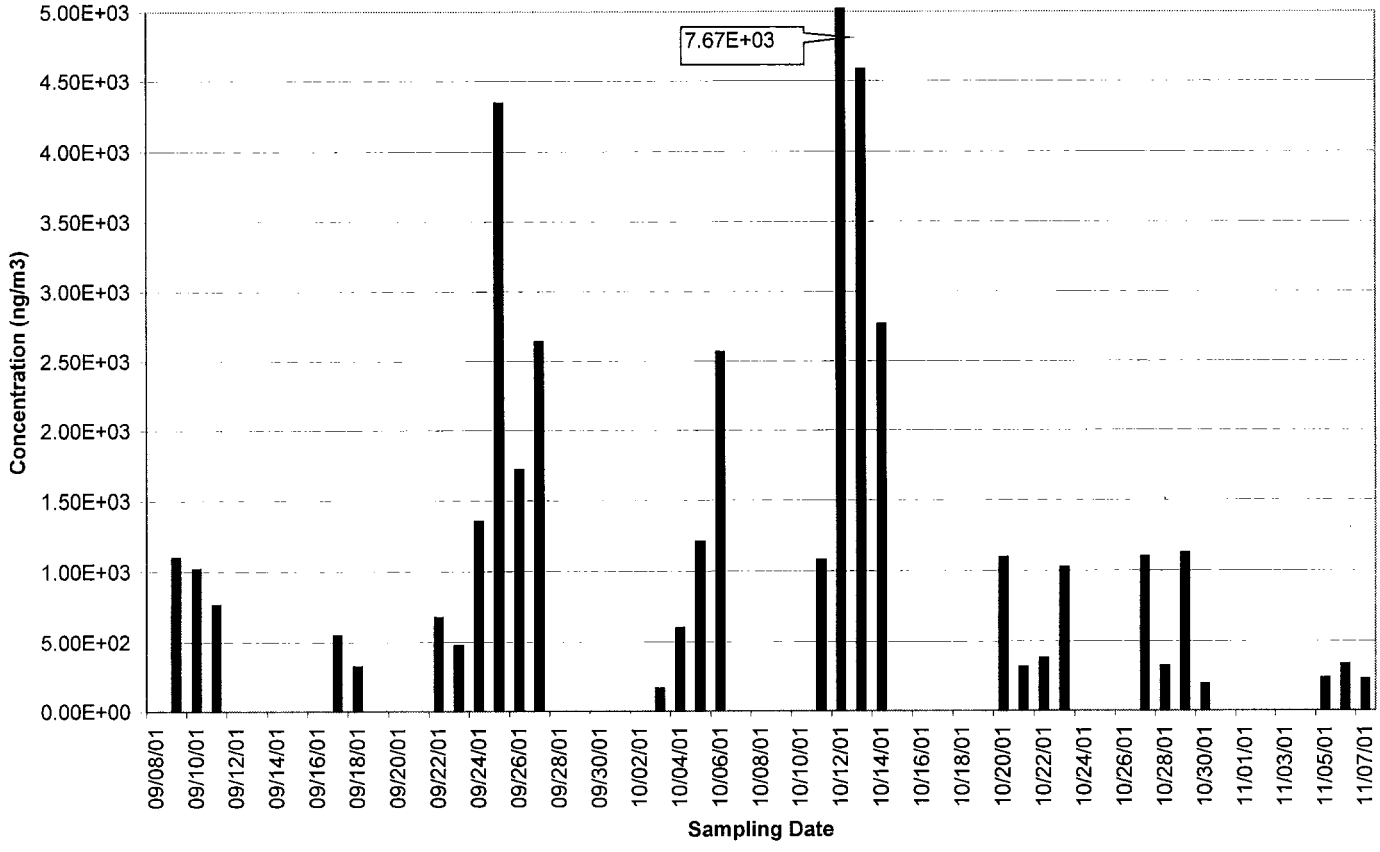
Chloropicrin at LJE



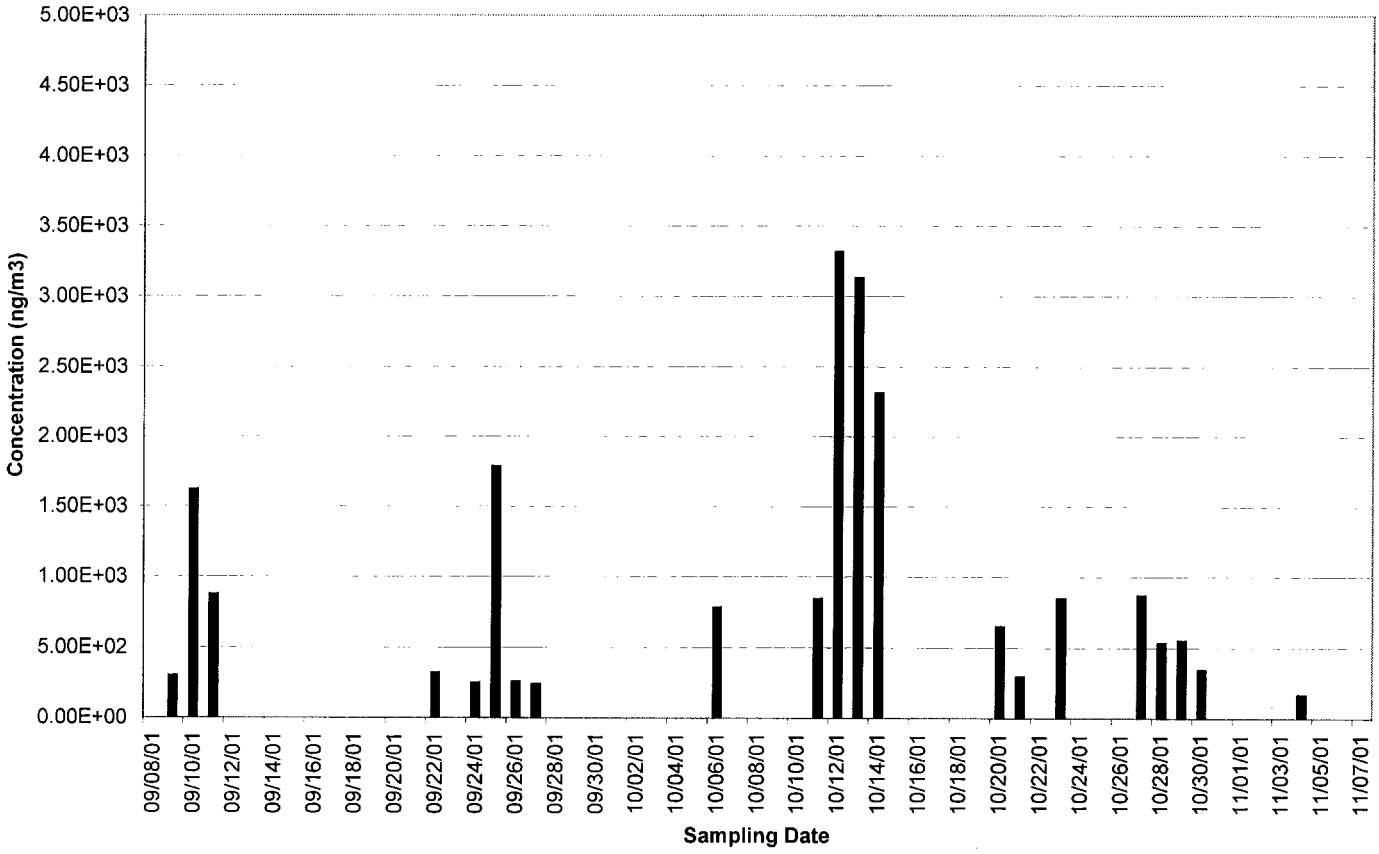
Chloropicrin at MES



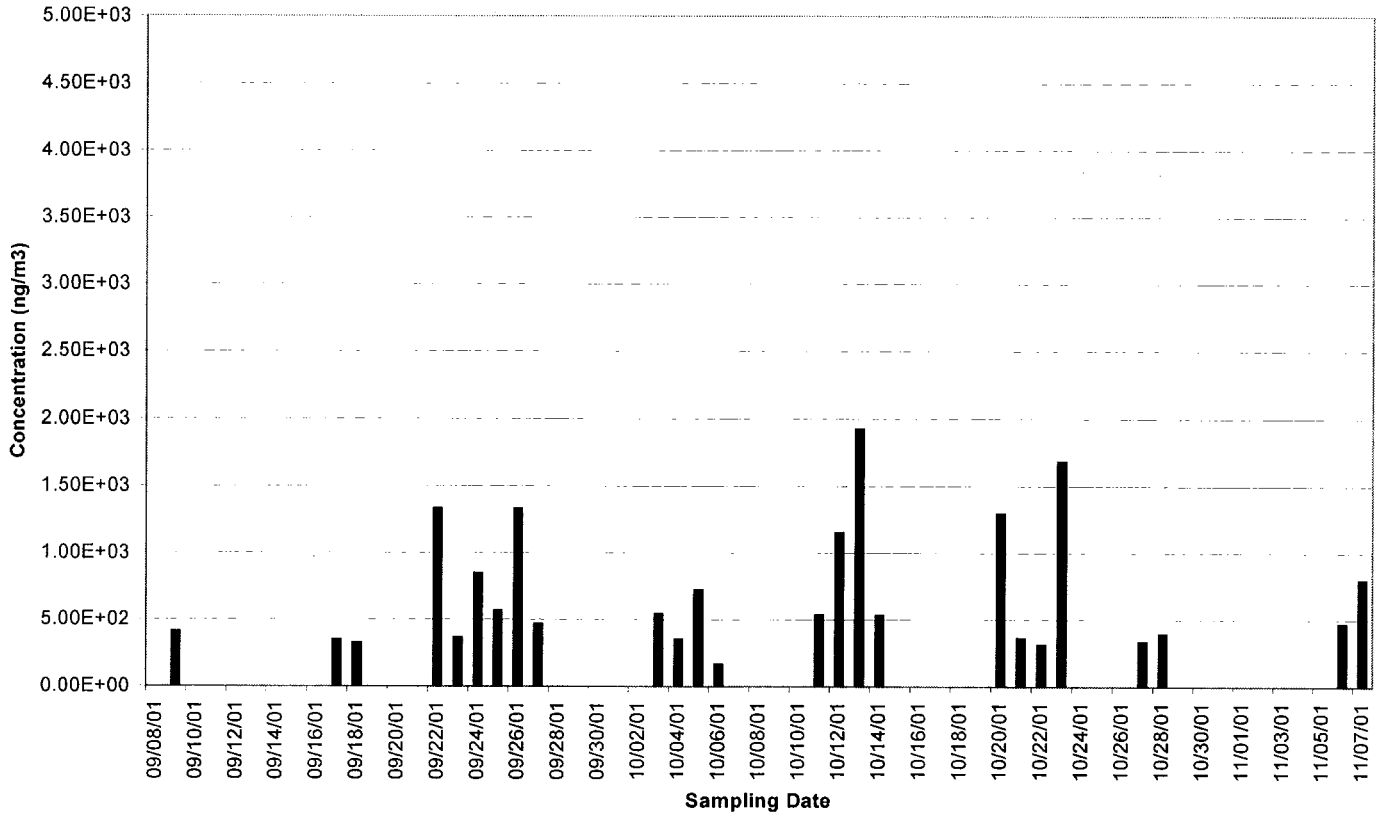
Chloropicrin at PMS



Chloropicrin at SAL



Chloropicrin at SES



Acknowledgments

Assistance in sampling site selection was provided by staff of the Monterey County Agricultural Commissioner's Office and the Santa Cruz County Agricultural Commissioner's Office. Staff of the ARB Air Quality Surveillance Branch (AQSB) collected the ambient samples. Steve Rider of the AQSB coordinated the field work. Jim Omand, Terry Houston, and Mike Orbanosky of the ARB Special Analysis Section laboratory performed the method development and chemical analyses. Lynn Baker of the ARB Stationary Source Division provided helpful advice and comments in regard to project planning and the monitoring protocol and report.

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Ambient Air Monitoring for Chloropicrin and Breakdown Products of Metam Sodium in Monterey and Santa Cruz Counties – Fall 2001

I. Introduction

At the request of the California Department of Pesticide Regulation (DPR) (June 28, 2000, memorandum, Helliker to Lloyd and July 25, 2001, memorandum, Sanders to Cook), the Air Resources Board (ARB) staff determined airborne concentrations of the pesticide chloropicrin (TCNM) and two breakdown products of metam sodium: methyl isothiocyanate (MITC) and methyl isocyanate (MIC). Monitoring was conducted in Monterey and Santa Cruz Counties from September 8 through November 8, 2001, to coincide with the use of soil fumigants prior to planting of a variety of crops. The sampling site selection specifically focused on the use of methyl bromide and chloropicrin prior to planting strawberries. This monitoring was done to fulfill the requirements of AB 1807/3219 (Food and Agricultural Code, Division 7, Chapter 3, Article 1.5), which requires the ARB "to document the level of airborne emissions... of pesticides which may be determined to pose a present or potential hazard..." when requested by the DPR. The ARB Special Analysis Section of the Northern Laboratory Branch conducted the method development and sample analyses. The ARB Air Quality Surveillance Branch staff conducted sample collection for the ambient study. Cartridge sampling was also performed in Kern County in Summer 2001 and has been reported separately (*Ambient Air Monitoring for Chloropicrin and Breakdown Products of Metam Sodium in Kern County - Summer 2001, November, 2003*). Coincident monitoring for methyl bromide and 1,3-dichloropropene in canisters has been reported separately (*Ambient Air Monitoring for Methyl Bromide and 1,3-Dichloropropene in Monterey and Santa Cruz Counties, Fall 2001, March 29, 2002*).

The protocol for the ambient air monitoring for chloropicrin and breakdown products of metam sodium is enclosed separately as Appendix I (page 1). The protocol Attachments have not been included in Appendix I, but are available upon request. The protocol Attachments include standard operating procedures (SOP) which are reproduced in the laboratory report (i.e., for chloropicrin, MITC and MIC in Appendix II (page 52 - 68)) and the "Quality Assurance Plan for Pesticide Air Monitoring". The protocol Attachment that is relevant to this report, the "Pesticide Ambient Sampling Procedures for Adsorbent Tubes", is included separately as Appendix VI (pages 115 - 117).

The laboratory report, *Air Sampling Cartridge Method Development and Analytical Results for Ambient Monitoring in Monterey and Santa Cruz Counties*, is enclosed separately as Appendix II. The SOPs for chloropicrin, MITC and MIC (and 1,3-dichloropropene) are also enclosed in Appendix II (pages 52 - 68).

The field data sheets for MIC are enclosed as Appendix III (pages 69-84). The field data sheets for chloropicrin are enclosed as Appendix IV (pages 85 - 99). The field data sheets for MITC and 1,3-dichloropropene are enclosed as Appendix V (pages 100 - 114).

The DPR's July 25, 2001 memorandum, "Use Information and Air Monitoring Recommendations for Field Fumigations with the Pesticide Active Ingredients 1,3-Dichloropropene, Chloropicrin, Metam Sodium, and Methyl Bromide", is enclosed as Appendix VII (pages 118 - 163).

II. Chemical Properties of Chloropicrin, Metam Sodium and its Breakdown Products, MITC and MIC

Information regarding the chemical properties of chloropicrin, metam sodium, MITC and MIC are summarized in the DPR's July 25, 2001, memorandum, "Use Information and Air Monitoring Recommendations for Field Fumigations with the Pesticide Active Ingredients 1,3-Dichloropropene, Chloropicrin, Metam Sodium, and Methyl Bromide" (Appendix VII). Chloropicrin photodegrades to carbon dioxide, bicarbonate, chloride, nitrate, and nitrite with a half-life of 31 hours. Metam sodium decomposes to MITC within 4 days when in contact with moist soil. In laboratory experiments, using ambient solar radiation, MITC half-lives ranged from 29 to 39 hours and resulted in the product of MIC, methylamine, N-methyl formamide, sulfur dioxide, hydrogen sulfide, and carbonyl sulfide. Research suggests that MIC may be the major stable photochemical product formed in the atmosphere.

III. Sampling

The procedure used for the fumigant monitoring involved cartridge sampling. The collection media used for monitoring MITC and 1,3-dichloropropene are charcoal cartridges. The media used for chloropicrin are XAD-4 resin filled sampling cartridges. The media used for MIC are derivatized XAD-7 resin filled sampling cartridges. The monitoring study in Monterey and Santa Cruz Counties was conducted from September 8, 2001, through November 8, 2001. Individual samples were collected for approximately 24-hour periods. For ambient fumigant monitoring conducted in 2000, 24-hour samples were collected 4 days per week, Monday through Friday. However, for the 2001 monitoring, the DPR had requested that, "At each site, 4 samples per week should be collected randomly over the full 7-day week during the sampling period". To accommodate this request, the sampling schedule was arranged, generally, in groups of 4 consecutive sampling periods separated by 1, 2, or 3 off-days, to add sampling days during most of the weekends during the 8-week monitoring study. The cartridge monitoring study included 192 individual sampling periods (6 sites x 32 sampling days). Collocated (duplicate) samples were collected for one day each week at each sampling location. Trip blanks were submitted once per week.

A. Sampling Method

The sampling methods require passing measured quantities of ambient air through adsorbent sampling tubes. For chloropicrin, the tubes are 8 mm x 150 mm, containing 400 mg XAD-4 resin in the primary section, and 200 mg XAD-4 resin in the secondary section (SKC special order). For MIC, the tubes are 6 mm x 90 mm, 1-(2-pyridyl) piperazine coated, containing 80 mg XAD-7 resin in the primary section, and 40 mg XAD-7 resin in the secondary section (Supelco special order). Two tubes (front and back) were used in sequence for the MIC sampling. For MITC and 1,3-dichloropropene, the tubes are 8 mm x 110 mm, with 400 mg coconut shell charcoal in the primary section, and 200 mg coconut shell charcoal in the secondary section (SKC catalogue #226-09). Sample collection was at a flow rate of 90 standard cubic centimeters per minute (sccpm) for chloropicrin; at 75 sccpm for MIC; and at 2.5 standard liters per minute (slpm) for MITC and 1,3-dichloropropene. All samples were approximately 24 hours in duration. Subsequent to sampling, the tubes were capped, labeled, placed in a culture tube and stored and transported to the ARB laboratory in Sacramento in an insulated container with dry ice.

Each sampler consists of an adsorbent tube, Teflon fittings and tubing, rain/sun shield, needle valve, train support and a 115 volt AC vacuum pump. Tubes were prepared for use by breaking off the sealed glass end and immediately inserting the tube into the Teflon fitting. The tubes were oriented in the sampler according to a small arrow printed on the side indicating the direction of flow. Needle valves of the appropriate range were used to control the flow rate. The flow rates were set using a calibrated digital mass flow meter (MFM) before the start of each sampling period. A MFM scaled from 0-5 slpm was used for MITC and a 0-100 sccpm MFM was used for the chloropicrin and MIC samplers. The flow rate was also checked and recorded, using the MFM, at the end of each sampling period. Samplers were checked for leaks prior to each sampling period with the sampling tubes installed. Any changes in flow rates were recorded in the field logbook. The pesticide ambient sampling procedures for adsorbent tubes and the adsorbent tube sampling field log sheets are enclosed as Appendix III through VI (pages 69 - 117).

B. Sampling Site Selection

The historic use patterns for chloropicrin and metam sodium suggested that monitoring should occur in Monterey and Santa Cruz Counties during the months of September and October to coincide with the use of the soil fumigants prior to the planting of a variety of crops. Six sampling sites were selected by ARB personnel "in populated areas or in areas frequented by people" (DPR's July 25, 2001 memorandum). Site selection was based upon considerations for accessibility, security of the sampling equipment, and compliance with technical siting requirements. The six sites are shown on Figure 1 and Figure 2 maps and are described in
Table 1.

Table 1

Ambient Sampling Sites

SAL	MBUAPCD Ambient Monitoring Station 867 E. Laurel Drive Salinas, CA 95905 Section/Township/Range: S.22/T.14S/R.3E GPS Coordinates: N. 36° 41.63' W. 121°37.39'	(831) 647-9411 Tony Sotello Station Operator
MES	MacQuiddy Elementary School 331 Martinelly Street Watsonville, CA 95076 Section/Township/Range: S.33/T.11E/R.2E GPS Coordinates: N. 36° 18.92' W. 121° 15.10'	(831) 728-6248 ext. 291 John McCann Env. Health & Safety Officer
CHU	Chualar School 24285 Lincoln Street Chualar, CA 93925-0188 Section/Township/Range: S.3/T.16S/R.4E GPS Coordinates: N. 36° 34.37' W. 121° 31.00'	(831) 679-2504 Nancy Torres Business Manager
LJE	La Joya Elementary 55 Rogge Road Salinas, CA 93906 Section/Township/Range: S.10/T.14S/R.3E GPS Coordinates: N. 36° 43.97' W. 121° 38.05'	(831) 443-7216 Mary Stefan Principal
PMS	Pajaro Middle School 250 Salinas Road Watsonville, CA 95076 Section/Township/Range: S.9/T.12S/R.2E GPS Coordinates: N. 36° 53.91' W. 121° 43.95'	(831) 728-6238 Jackie Defendis Principal
SES	Salsepuedes Elementary School 115 Casserly Road Watsonville, CA 95076 Section/Township/Range: S.22/T.11S/R.2E GPS Coordinates: N. 36° 57.67' W. 121° 43.88'	(831) 728-6830 Rebecca Salinas Principal

SAL

The urban background site was located at Monterey Bay Unified APCD's ambient air monitoring station in the city of Salinas. This station monitors concentrations and collects samples of most criteria gas and particulate pollutants, as well as meteorological data. The site is located in an area that has a mix of business offices, parks, agriculture, and

residences. Salinas has a population of approximately 130,000. The pesticide samplers were operated on a raised platform, and their inlets were 11 feet above ground level. The site met all technical siting requirements. Elevation of the site is ≤ 140 feet (43 meters) above mean sea level (MSL). No strawberry fields were noted within a 3-mile radius.

CHU

The Chualar School site was located in a rural agricultural/residential mixed area on the east edge of the town of Chualar, which has a population of approximately 1,000. The pesticide samplers were operated on the roof of one of the school buildings and their inlets were about 23 feet above ground level. No obstructions were present and the site met all technical siting requirements. Elevation of the site is ≤ 177 feet (54 meters) above MSL. No strawberry fields were noted within a 3-mile radius. This site was selected based on historic use of 1,3-dichloropropene.

LJE

The La Joya Elementary School site was located in a rural, residential/agricultural mixed area north of Salinas. The pesticide samplers were operated on the roof of one of the school buildings, and their inlets were about 15 feet above ground level. The site met all technical siting requirements. Elevation of the site is ≤ 176 feet (54 meters) above MSL. Strawberry fields were noted 500 feet to the north and 1.3 miles to the west southwest.

PMS

The Pajaro Middle School site was located in an urban, commercial/residential/agricultural mixed area on the west-side of the town of Pajaro, which has a population of approximately 3,500. The pesticide samplers were operated on the roof of one of the school buildings and their inlets were about 21 feet above ground level. The site met all technical siting requirements. Elevation of the site is ≤ 104 feet (32 meters) above MSL. Strawberry fields were noted at 1.0 mile to the northwest and 1.5 miles to the east.

MES

The MacQuiddy Elementary School site was located in an urban, residential/agricultural mixed area at the east-end of the city of Watsonville, which has a population of approximately 38,000. The pesticide samplers were operated on the roof of one of the school buildings, and their inlets were about 19 feet above ground level. The site met all technical siting requirements. Elevation of the site is ≤ 100 feet (31 meters) above MSL. Strawberry fields were noted 360 feet to the northeast and 0.6 miles to the west southwest.

SES

The Salsipuedes Elementary School was located in a rural, agricultural/residential mixed area 3.5 miles to the north northeast of Watsonville. The pesticide samplers were operated on the roof of one of the school buildings, and their inlets were about 19 feet above ground level. No obstructions were present, and the site met all technical siting requirements. Elevation of the site is ≤ 217 feet (66 meters) above MSL. No strawberry fields were noted within a 3-mile radius.

IV. Analytical Methodology

The standard operating procedures for sampling and analysis of 1,3-dichloropropene, chloropicrin, and breakdown products of metam sodium in cartridges are included in Appendix II (pages 52-68).

The method detection limit (MDL) was determined following CFR 40, Part 136, Appendix B by analysis of 7 replicate cartridge spikes (near the estimated detection limit) for each pesticide. The MDL = (3.14) times standard deviation, calculated from the 7 replicate results. The analytical estimated quantitation limit (EQL) = (5) times MDL. For MITC, the laboratory staff used the lowest calibration standard to assign the MDL and EQL.

A. MITC and 1,3-Dichloropropene

The procedures specify that the ambient air is collected on the coconut based charcoal cartridges for 24 hours at 2.5 slpm flow rate. The samples were stored in an ice chest on dry ice or in a refrigerator until extracted with 3 milliliters (ml) of dichloromethane. A GC/MSD in the SIM mode was used for analysis.

As stated previously, the laboratory used the lowest calibration standard concentration as the reporting limit (EQL) for MITC. The lowest calibration standard concentration was set at 0.5 μg/ml (1.5 μg/sample based on a 3 ml extraction volume) which resulted in a reported EQL of 0.42 $\mu g/m^3$ for MITC based on a 2.5 slpm sampling flow rate for a 24-hour period. The target 24-hour EQL requested by DPR for MITC was 0.5 $\mu g/m^3$. The MDL for MITC, following CFR 40, Part 136, Appendix B format, achieved by the laboratory staff was 0.12 μg/sample (refer to the SOP, page 56 of Appendix II) which corresponds to an EQL of 0.6 μg/sample. Thus, the reporting limit (EQL) assigned by the laboratory staff was 2.5 times higher than the EQL calculated following CFR 40, Part 136, Appendix B.

The target 24-hour EQL requested by DPR for total 1,3-dichloropropene was 10 ng/m^3. The MDL and EQL for each 1,3-dichloropropene isomer achieved by the laboratory staff were 3 ng/sample and 15 ng/sample, respectively. This corresponds to an EQL of 4.2 ng/m^3 sampled air for each 1,3-dichloropropene isomer.

B. Chloropicrin

The procedures specify that the ambient air is collected on the XAD-4 resin cartridges for 24 hours at a flow rate of 0.1 slpm. The samples were stored in an ice chest on dry ice or in a refrigerator until extracted with 3 ml of dichloromethane. A GC/MSD in the SIM mode was used for analysis. The target 24-hour EQL requested by DPR for chloropicrin was 100 ng/m^3. The MDL and EQL achieved by the laboratory staff were 3.96 ng/sample and 19.8 ng/sample, respectively. This corresponds to an EQL of 137.5 ng/m^3 at flow rate of 0.1 slpm. The actual sampling flow rate was 0.09 slpm. This resulted in an EQL of 152 ng/m^3 for chloropicrin, which is higher than requested

EQL. The GC/MSD was run in the SIM mode to achieve the highest level of instrument sensitivity. The EQL reported is the lowest that could be achieved for chloropicrin.

C. MIC

The procedures specify that the ambient air is collected on the derivatized XAD-7 resin cartridges for 24 hours at a flow rate of 0.075 slpm. The samples are stored in an ice chest on dry ice or a refrigerator until extracted with 3 ml of acetonitrile. A HPLC with a fluorescence detector was used for the analysis. The target 24-hour EQL requested by DPR for MIC was 0.05 ug/m^3. The MDL and EQL achieved by the laboratory staff were 0.009 μg/sample and 0.045 μg/sample, respectively. This corresponds to an EQL of 0.42 μg/m^3 sampled air, which is approximately eight (8) times higher than requested. The EQL reported is the lowest that could be achieved by the laboratory. The DPR directed that the monitoring for MIC should be conducted as planned even with the EQL higher than requested.

V. Monitoring Results

All samples were extracted and analyzed within 7 days of receipt.

For all four compounds, results below the MDL were reported as <MDL. Results equal to or above the MDL but below the EQL were reported as detected (DET). Laboratory results (ng or μg/sample), equal to or above the EQL, were reported to 3 significant figures, concentrations in sampled air (ng or μg/m^3) were reported to 2 significant figures. To maintain consistency with the laboratory report, 1,3-dichloropropene and chloropicrin were reported in units of ng/m^3 and MITC and MIC were reported in units of μg/m^3. No sample results have been adjusted or corrected for recoveries of quality assurance spike samples.

A. Chloropicrin

Table 2 presents the results of ambient air monitoring for chloropicrin in units of ng/m^3 and pptv. Summaries of the ambient results for chloropicrin are presented in Table 3. The monitoring period included 192 individual sampling periods (6 sites x 32 sampling days).

The equation used to convert chloropicrin air concentration results from units of ng/m^3 to units of pptv at 1 atmosphere and 25°C is shown below:

$$\text{pptv} = (\text{ng/m}^3) \times \frac{(0.0820575 \text{ liter-atm/mole-°K})(298\text{°K})}{(1 \text{ atm})(164.4 \text{ gram/mole})} = (0.1487) \times (\text{ng/m}^3)$$

For chloropicrin, of the 192 ambient air samples collected (spikes, blanks, and the lower value of each collocated pair excluded), 149 were found to be above the EQL, 33 were found to have detectable results (Det), 7 were below the MDL and three

samples were invalid. The highest chloropicrin concentration, 14,000 ng/m^3 (2100 pptv), was observed at the La Joya Elementary School (LJE) sampling site on October 28, 2001.

B. MITC

Table 5 presents the results of ambient air monitoring for MITC in units of μg/m^3 and pptv. Summaries of the ambient results for MITC are presented in Table 6. The monitoring period included 192 individual sampling periods (6 sites x 32 sampling days).

The equation used to convert MITC air concentration results from units of μg/m^3 to units of pptv at 1 atmosphere and 25°C is shown below:

$$\text{pptv} = (\mu g/m^3) \times 1000 ng/\mu g \times \frac{(0.0820575 \text{ liter-atm/mole-°K})(298°K)}{(1 \text{ atm})(73 \text{ gram/mole})} = (334.4) \times (\mu g/m^3)$$

For MITC, of the 192 ambient air samples collected (spikes, blanks, and the lower value of each collocated pair excluded), one was found to be above the EQL, two were found to have detectable results (Det), 186 were below the MDL and three samples were invalid. The highest MITC concentration, 0.43 μg/m^3 (150 pptv), was observed at the Salsipuedes Elementary School (SES) sampling site on October 12, 2001. The two samples with detectable concentrations were also at the SES site.

C. MIC

Table 8 presents the results of ambient air monitoring for MIC in units of μg/m^3 and pptv. Summaries of the ambient results for MIC are presented in Table 9. The monitoring period included 192 individual sampling periods (6 sites x 32 sampling days). Two XAD-7 resin cartridges (front and back) were used in sequence for the MIC sampling. Initially, the first 64 cartridges were logged separately but only the front half of each sample was analyzed. The back half of each sample was archived for later analysis, if necessary, based on front half results. Results for these samples were all <MDL for the front cartridge an therefore the back cartridge did not require analysis. The remaining samples were logged as FB and again only the front half of each sample was analyzed. (All of the samples for the Kern study in Summer 2001 had MIC cartridges analyzed separately and all results were <MDL thereby supporting this change in procedure.) Only four samples had results >MDL for MIC in this study. The equation used to convert MIC air concentration results from units of μg/m^3 to units of pptv at 1 atmosphere and 25°C is shown below:

$$\text{pptv} = (\mu g/m^3) \times 1000 ng/\mu g \times \frac{(0.0820575 \text{ liter-atm/mole-°K})(298°K)}{(1 \text{ atm})(57 \text{ gram/mole})} = (429.0) \times (\mu g /m^3)$$

For MIC, of the 192 ambient air samples collected (spikes, blanks, and the lower value of each collocated pair excluded), four samples had results of "DET", 186 samples

were found to be below the MDL, and two samples were invalid.

D. Cartridge and Canister Results for 1,3-Dichloropropene
Simultaneous monitoring was conducted for 1,3-dichlororpropene (DCP) using SilcoCan[tm] sampling canisters. The canister results for 1,3-dichloropropene (reported separately) should be considered as the "official" results for the monitoring study. The 1,3-dichloropropene cartridge results are included in as Appendix VIII of this report. The 1,3-dichloropropene cartridge results were obtained from the same sampling/analysis procedure used for MITC. Minimal additional work was required to provide the cartridge results for 1,3-dichloropropene. As such, the DPR requested cartridge results be reported for comparison with the canister results. The table below provides a comparison of the maximum and average canister and cartridge results for 1,3-dichloropropene as measured during the 2001 Monterey and Santa Cruz Counties Monitoring Study.

Canister and Cartridge Results for Total 1,3-Dichloropropene (ng/m^3) (Maximum & Average) In Monterey and Santa Cruz Counties 2001

		CHU	LJE	MES	PMS	SAL	SES
Maximum	Canister	1.83E+03	4.89E+03	1.89E+04	4.20E+03	1.46E+03	1.05E+03
	Cartridge	2.51E+03	4.32E+03	7.50E+03	4.03E+03	1.84E+03	6.54E+02
	Ratio (canister/cartridge)	0.73	1.13	2.52	1.04	0.79	1.61
Average	Canister	2.64E+02	3.29E+02	1.74E+03	4.86E+02	2.62E+02	2.09E+02
	Cartridge	3.08E+02	3.69E+02	9.40E+02	4.41E+02	3.67E+02	1.71E+02
	Ratio (canister/cartridge)	0.86	0.89	1.85	1.10	0.71	1.22

VI. Quality Assurance

Field QC for the cartridge monitoring included the following:

1) Four field spikes (same environmental and experimental conditions as those occurring at the time of ambient sampling) prepared by the Special Analysis Section staff; the field spikes were obtained by sampling ambient air at the background monitoring site for 24-hour periods (collocated with an ambient sample);
2) Four trip spikes;
3) Collocated (duplicate) samples were taken once per week at each sampling location; and
4) 8 trip blanks;

5) The battery operated mass flow meters used to set and check the sampling flow rate (for canisters and charcoal tubes) were calibrated by the ARB Program Evaluation and Standards Section.

For the cartridge pesticide samplers, the flow rates were set and recorded at the start of every sampling period (every sample) using a calibrated, battery operated digital mass flow meter. The flow rates were also checked and recorded at the end of each sampling period using the mass flow meter.

VII. Quality Control Results

A. Trip Blanks
Referring to Table 11 of Appendix II, laboratory report (page 50), 8 trip blanks were analyzed for each pesticide and all trip blanks results were <MDL.

B. Collocated Sample Results
The relative percent difference (RPD) of the collocated results (RPD = (|difference|/average) x 100) are summarized and discussed below. The RPD provides an indication of the precision of the monitoring method (i.e., the lower the RPD the better the precision).

	total-DCP	chloropicrin	MITC	MIC
Average RPD	12%	12%	NA	NA
Range of RPD	0% to 111%	0% to 48%	NA	NA

1,3-dichloropropene: Referring to Appendix VIII Table 3, 38 of 48 collocated pairs of samples had both total 1,3-dichloropropene results above the EQL. With the exception of the highest RPD (111%) the results indicate acceptable precision for the method.

Chloropicrin: Referring to Table 4, page 25, 37 of 48 collocated pairs of samples had both chloropicrin results above the EQL. The results indicate acceptable precision for the method.

MITC: Referring to Table 7, page 35, none of the collocated pairs of samples had MITC results above the EQL.

MIC: Referring to Table 10, page 47, none of the collocated pairs of samples had MIC results above the EQL.

C. Laboratory, Trip, and Field Spikes
The purpose of collecting spiked samples is to assess the accuracy (% recovery) of the sampling and analytical methods. The field spikes are collected by sampling ambient air through the previously spiked cartridges at the one of the sampling sites.

Thus, the field spikes provide an assessment of the accuracy of the entire method and are collected under the same environmental and experimental conditions as those occurring at the time of ambient sampling. The lab and trip spikes are used to confirm the field spike results or to help identify the source of losses (problems) when they occur in the field spikes.

Laboratory, trip, and field spikes were prepared by spiking a known amount of the target compounds onto the appropriate cartridges. The spikes were made and collected in four separate sets, one every other week for the eight-week sampling period.

The laboratory spikes were placed immediately in a freezer and kept there until extraction and analysis. The trip and field spikes were kept in the lab freezer until transported to the field. The trip spikes were kept on dry ice in an ice chest (the same one used for samples) during transport to and from the field and at all times while in the field except log-in and labeling.

The spiked values (per sample) are as follows for all laboratory, trip, and field spikes: 240 ng for total 1,3-dichloropropene (120 ng for each isomer); 120 ng for chloropicrin; 12 μg for MITC; and 0.60 μg for MIC. The extraction and analysis of each set of laboratory, trip and field spikes normally occurs at the same time. The collocated (unspiked) sample result was subtracted from the field spike sample result before calculation of percent recovery of the analytes. The lab, trip and field spike results (average % recovery) are summarized and discussed below.

	cis-DCP	trans-DCP	chloropicrin	MITC	MIC
Lab	74%	74%	82%	56%	126%
Trip	77%	78%	89%	55%	140%
Field	76%	86%	95%	55%	138%

1,3-dichloropropene Spike Results: The spike results for 1,3-dichloropropene are listed in Appendix VIII, Tables 4 through 6, page 48. The lab, trip and field spike results are consistent and indicate that the cartridge sampling and analysis method provides acceptable results for 1,3-dichloropropene.

Chloropicrin Spike Results: The spike results for chloropicrin are listed in Tables 14 through 16, page 49. The lab, trip and field spike results are consistent and indicate that the sampling and analysis method provides acceptable results for chloropicrin.

MITC Spike Results: The spike results for MITC are listed in Tables 11 through 13, page 48. The laboratory, trip, and field spike recoveries for MITC were consistent with each other, but lower than laboratory spiking solution results of 82% average recovery. (Table 5 of laboratory report on page 44 of Appendix II). The laboratory control sample (LCS) results with average recovery of 56% (Table 7 of the laboratory report on

page 46 of Appendix II) were also lower than the laboratory spiking solution results. The laboratory spiking solution results (82% average recovery) were obtained by analysis of the spiking solution directly on the GC/MSD without extraction. The LCSs were cartridges (charcoal tubes) spiked with MITC spiking solution, extracted with dichloromethane, and analyzed on the GC/MSD. This indicates that the low spike recoveries for MITC may be caused in part by the low extraction efficiency (as indicated from the direct injection). The laboratory report does not provide an explanation of the low spiking standard results. However, the laboratory report (Appendix II) states:

> "The recovery of MITC for this method averages 58%. Using a different solvent may help improve average recovery, but would necessitate using an additional cartridge for field sampling". (i.e., if sampling for 1,3- dichloropropene by cartridge as well)(Please note that lab report text states 58% recovery while Table 7 of laboratory report correctly states 56%.)

Due to the low recovery, the concentrations of MITC in sampled air may be underestimated using this method.

MIC Spike Results: The spike results for MIC are listed in Tables 17 through 19 (page 49). As stated in the laboratory report (Appendix II), the MIC analysis was still in the development stage when the monitoring took place. Retention time shifting and subsequent interference was observed during the analysis. This resulted in inaccurate area determination for derivatized MIC. The laboratory report states:

> "The field, trip and laboratory spike recoveries are all high for the MIC. This is due to the narrow window for the detection of the derivatized MIC and the presence of interference peaks."

The relatively low recovery (85%) for one of the laboratory control spikes is due to "sample loss on transfer" for filtering in the laboratory.

Due to the presence of interfering peaks, the concentrations of MIC in sampled air may be overestimated using this method. However, for this monitoring study, all samples had results below the EQL. Therefore, the interference should have minimal impact on the reported results.

VIII. Method Development

Refer to page 21 of Appendix II, for discussion and results of method development studies. For the 2001 monitoring, the SAS staff maximized the analytical methods to include the most analytes while minimizing procedural variation by using a GC/MS column that optimizes chromatographic separation of the cis- and trans-DCP isomers,

MITC and chloropicrin.

A. Collection and Extraction Efficiency
The percent recoveries for DCP, based on historical data, ranged from 82 to 110% with a mean of 92% and a relative standard deviation of 12%. The recoveries for chloropicrin averaged 85%. The recoveries for MITC ranged from 61 to 68%. The recoveries for MIC averaged 69%. The spiked concentrations for each compound at low and high levels are listed in the table below.

Compound	Low Level	High Level
DCP	60 ng/sample	300 ng/sample
MITC	1.5 ug/sample	15 ug/sample
MIC	0.6 ug/sample	4.5 ug/sample
TCNM	15 ng/sample	150 ng/sample

B. Storage Stability
The storage stability study was completed for chloropicrin. The results, with recoveries from 89% to 114%, show that chloropicrin is stable for at least 4 weeks on XAD-4 resin when stored in the freezer. Storage stability studies were previously done with 1,3-dichloropropene and MITC and not repeated for this project. The SOP, page 56 of Appendix II, indicates that samples should be analyzed "within four days of sample receipt." (This should be within four days of sampling.) No MIC stability studies were done prior to the start of the monitoring. All samples were extracted and analyzed within 7 days of receipt and within 11 days of sampling. The laboratory report does not indicate how this would affect the monitoring results.

C. Method Detection Limit (MDL)
MDL studies were completed for all four compounds. The MDLs were 3 ng/sample, 3.96 ng/sample, 0.12 μg/sample, and 0.009 μg/sample for 1,3-dichloropropene (per isomer), chloropicrin, MITC and MIC, respectively.

D. Breakthrough
A breakthrough study was completed for chloropicrin. Results showed that flow rate is a critical factor in the field sampling. No chloropicrin was detected (<MDL) in the secondary bed if sampling flow rate was set at 0.1 slpm. No breakthrough analysis was done for 1,3-dichloropropene. Breakthrough was checked for MITC by spiking 15 μg of MITC onto the primary bed of a charcoal tube. It was then used to collect a 24-hour sample with a flow rate of 3 slpm. No MITC was detected in the secondary bed. No breakthrough study was completed for MIC. Work on MIC to optimize field sampling and minimize interference from the derivatizing agent indicates that two cartridges placed in tandem were needed to retain MIC.

Figure 1 Ambient Monitoring Sites

(use map provided by DPR)

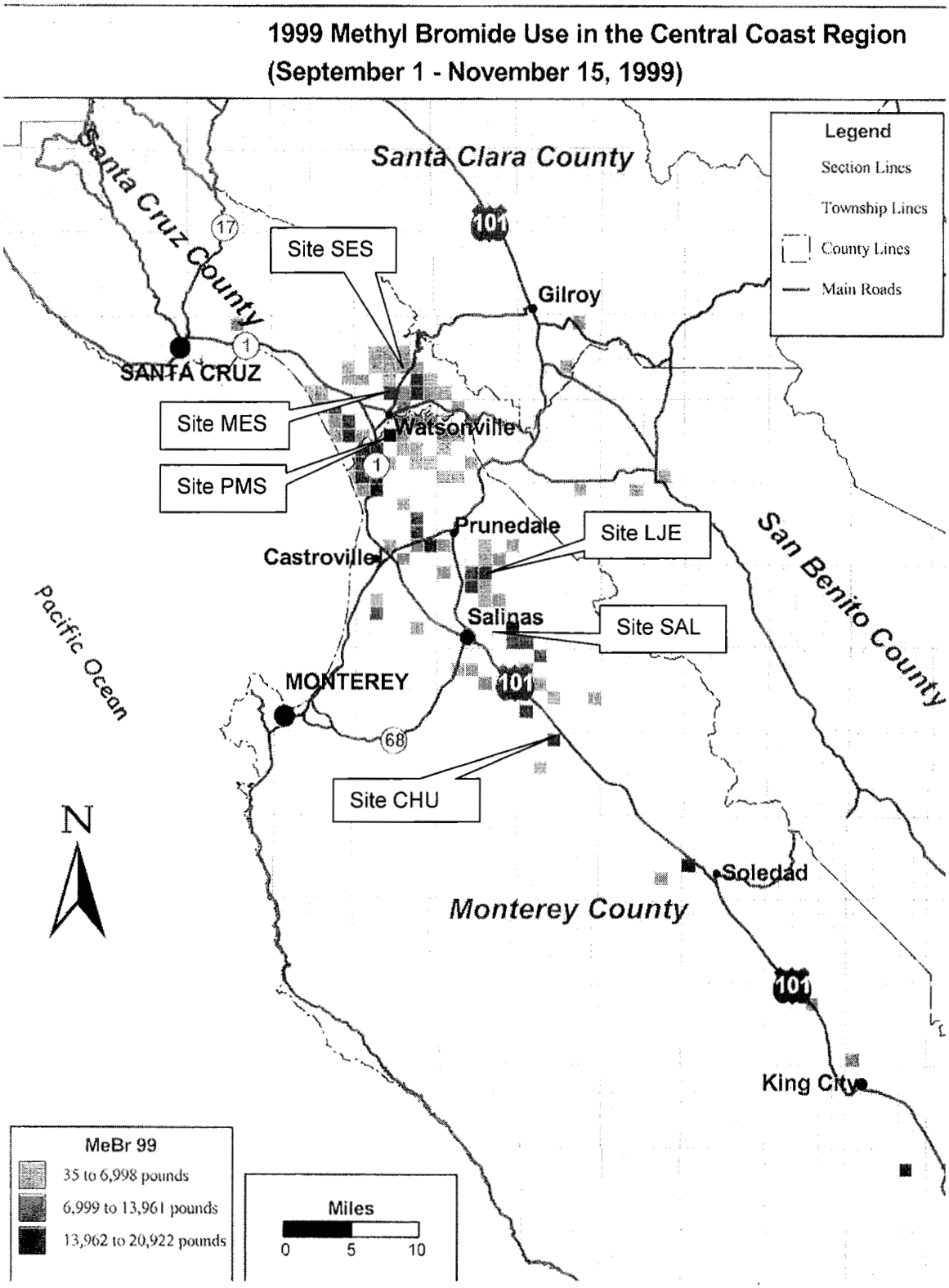

Figure 2
Ambient Monitoring Area Map

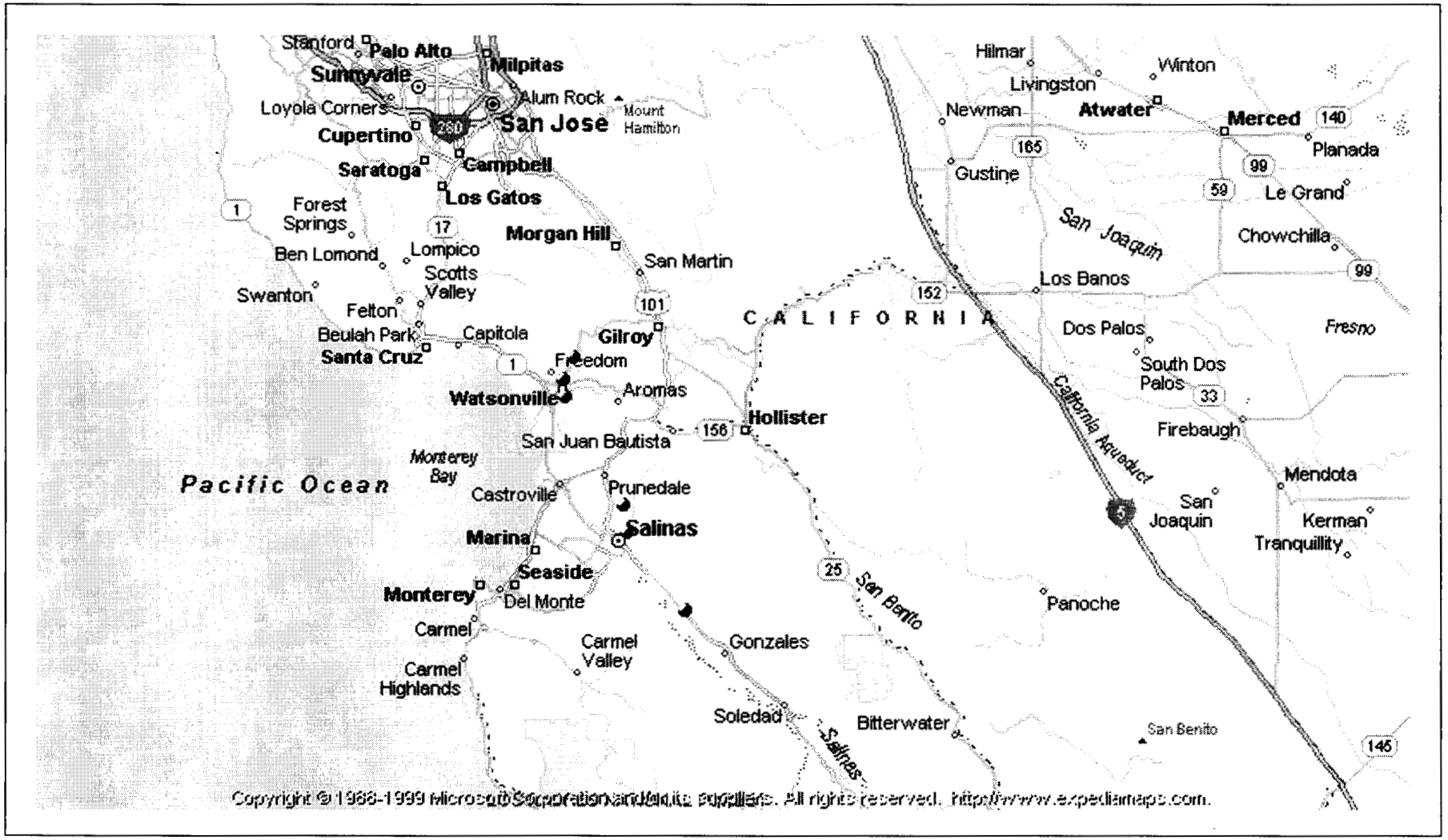

Table 2 **Chloropicrin Ambient Monitoring Cartridge Results for Monterey and Santa Cruz Counties 2001**

Log #	Sample ID	Start Date/Time	End Date/Time	Time (min)	Time (hours)	Volume (m^3)	TCNM (ng/sample)	TCNM (ng/m^3)	TCNM [(1)](pptv)
1	SALL-1	9/8/01 6:48 AM	9/9/01 6:45 AM	1437	24.0	0.13	DET	DET	DET
2	SALL-1FS	9/8/01 6:54 AM	9/9/01 6:57 AM	1443	24.0	0.13	1.22E+02	9.4E+02	1.4E+02
3	CHUL-1	9/8/01 7:30 AM	9/9/01 7:38 AM	1448	24.1	0.13	DET	DET	DET
4	LJEL-1	9/8/01 8:12 AM	9/9/01 8:22 AM	1450	24.2	0.13	<MDL	<MDL	<MDL
5	PIUSL-1	9/8/01 9:02 AM	9/9/01 9:13 AM	1451	24.2	0.13	DET	DET	DET
6	MESL-1	9/8/01 9:42 AM	9/9/01 9:55 AM	1453	24.2	0.13	<MDL	<MDL	<MDL
7	SESL-1	9/8/01 10:12 AM	9/9/01 10:32 AM	1460	24.3	0.13	<MDL	<MDL	<MDL
8	SALL-1TB	9/9/01 7:08 AM	NA	NA	NA	NA	<MDL	<MDL	<MDL
9	SALL-2	9/9/01 6:53 AM	9/10/01 6:38 AM	1425	23.7	0.13	3.85E+01	3.0E+02	4.5E+01
10	SALL-2C	9/9/01 7:04 AM	9/10/01 6:54 AM	1430	23.8	0.13	2.59E+01	2.0E+02	3.0E+01
11	CHUL-2	9/9/01 7:47 AM	9/10/01 7:50 AM	1443	24.0	0.13	3.96E+01	3.1E+02	4.5E+01
12	CHUL-2C	9/9/01 7:51 AM	9/10/01 7:42 AM	1431	23.9	0.13	3.36E+01	2.6E+02	3.9E+01
13	LJRL-2	9/9/01 8:33 AM	9/10/01 8:30 AM	1437	24.0	0.13	2.44E+02	1.9E+03	2.8E+02
14	LJEL-2C	9/9/01 8:39 AM	9/10/01 8:40 AM	1441	24.0	0.13	2.64E+02	2.0E+03	3.0E+02
15	PMSL-2	9/9/01 9:21 AM	9/10/01 9:29 AM	1448	24.1	0.13	1.43E+02	1.1E+03	1.6E+02
16	PMSL-2C	9/9/01 9:33 AM	9/10/01 9:39 AM	1446	24.1	0.13	1.32E+02	1.0E+03	1.5E+02
17	MESL-2	9/9/01 10:03 AM	9/10/01 10:07 AM	1444	24.1	0.13	6.76E+01	5.2E+02	7.7E+01
18	MESL-2C	9/9/01 10:09 AM	9/10/01 10:20 AM	1451	24.2	0.12	6.33E+01	5.3E+02	7.9E+01
19	SESL-2	9/9/01 10:41 AM	9/10/01 10:50 AM	1449	24.1	0.13	5.33E+01	4.1E+02	6.1E+01
20	SESL-2C	9/9/01 10:46 AM	9/10/01 10:58 AM	1452	24.2	0.13	3.33E+01	2.5E+02	3.8E+01
21	SESL-2TS	9/9/01 10:56 AM	NA	NA	NA	NA	1.04E+02	NA	NA
22	SALL-3	9/10/01 6:46 AM	9/11/01 6:39 AM	1433	23.9	0.13	2.09E+02	1.6E+03	2.4E+02
23	CHUL-3	9/10/01 7:43 AM	9/11/01 7:29 AM	1426	23.8	0.13	3.33E+01	2.6E+02	3.9E+01
24	LJEL-3	9/10/01 8:32 AM	9/11/01 8:23 AM	1431	23.9	0.13	1.02E+02	7.9E+02	1.2E+02
25	PMSL-3	9/10/01 9:32 AM	9/11/01 9:26 AM	1434	23.9	0.13	1.31E+02	1.0E+03	1.5E+02
26	MESL-3*	9/10/01 10:16 AM	9/11/01 10:16 AM	1440	24.0	0.13	NA	NA	NA
27	SESL-3	9/10/01 10:52 AM	9/11/01 10:54 AM	1442	24.0	0.13	DET	DET	DET
28	SALL-4	9/11/01 6:47 AM	9/12/01 6:45 AM	1438	24.0	0.13	1.13E+02	8.7E+02	1.3E+02
29	CHUL-4	9/11/01 7:38 AM	9/12/01 7:34 AM	1436	23.9	0.13	3.67E+01	2.8E+02	4.2E+01
30	LJEL-4	9/11/01 8:33 AM	9/12/01 8:29 AM	1436	23.9	0.13	4.66E+01	3.6E+02	5.4E+01
31	PMSL-4	9/11/01 9:36 AM	9/12/01 9:18 AM	1422	23.7	0.13	9.76E+01	7.6E+02	1.1E+02
32	MESL-4	9/11/01 10:23 AM	9/12/01 9:56 AM	1413	23.6	0.13	1.24E+02	9.7E+02	1.4E+02
33	SESL-4	9/11/01 11:07 AM	9/12/01 10:37 AM	1410	23.5	0.13	DET	DET	DET

MDL=3.96 ng/sample for Chloropicrin

DET=Value was below the EQL of 19.8 ng/sample but ≥MDL

[(1)]pptv at 1 atm and 25^{0}C

Table 2 **Chloropicrin Ambient Monitoring Cartridge Results for Monterey and Santa Cruz Counties 2001**

Log #	Sample ID	Start Date/Time	End Date/Time	Time (min)	Time (hours)	Volume (m^3)	TCNM (ng/sample)	TCNM (ng/m^3)	TCNM [(1)](pptv)
34	SALL-5	9/17/01 6:45 AM	9/18/01 6:23 AM	1418	23.6	0.13	<MDL	<MDL	<MDL
35	CHUL-5	9/17/01 7:25 AM	9/18/01 7:09 AM	1424	23.7	0.13	DET	DET	DET
36	LJEL-S	9/17/01 8:10 AM	9/18/01 10:15 AM	1565	26.1	0.14	DET	DET	DET
37	PMSL-5	9/17/01 8:58 AM	9/18/01 11:02 AM	1564	26.1	0.14	7.72E+01	5.5E+02	8.2E+01
38	MESL-5	9/17/01 9:23 AM	9/18/01 11:35 AM	1572	26.2	0.14	4.64E+01	3.3E+02	4.9E+01
39	SESL-5**	9/17/01 9:45 AM	9/18/01 12:09 PM	1584	26.4	0.14	4.97E+01	3.5E+02	5.2E+01
40	SALL-5TB	9/18/01 12:00 AM	NA	NA	NA	NA	<MDL	<MDL	<MDL
41	SALL-6	9/18/01 6:36 AM	9/19/01 7:21 AM	1485	24.8	0.13	DET	DET	DET
42	SALL-6C	9/18/01 6:41 AM	9/19/01 7:30 AM	1489	24.8	0.13	<MDL	<MDL	<MDL
43	CHUL-6	9/18/01 7:22 AM	9/19/01 8:00 AM	1478	24.6	0.13	<MDL	<MDL	<MDL
44	CHUL-6C	9/18/01 7:27 AM	9/19/01 8:07 AM	1480	24.7	0.13	<MDL	<MDL	<MDL
45	LJEL-6	9/18/01 10:27 AM	9/19/01 9:29 AM	1382	23.0	0.12	DET	DET	DET
46	LJEL-6C	9/18/01 10:31 AM	9/19/01 9:35 AM	1384	23.1	0.12	DET	DET	DET
47	PMSL-6	9/18/01 11:12 AM	9/19/01 11:15 AM	1443	24.0	0.13	4.17E+01	3.2E+02	4.8E+01
48	PMSL-6C	9/18/01 11:15 AM	9/19/01 10:20 AM	1385	23.1	0.12	4.02E+01	3.2E+02	4.8E+01
49	MESL-6	9/18/01 11:44 AM	9/19/01 10:45 AM	1381	23.0	0.12	2.16E+01	1.7E+02	2.6E+01
50	MESL-6C	9/18/01 11:47 AM	9/19/01 10:48 AM	1381	23.0	0.12	3.53E+01	2.8E+02	4.2E+01
51	SESL-6	9/18/01 12:19 PM	9/19/01 11:27 AM	1388	23.1	0.12	4.07E+01	3.3E+02	4.8E+01
52	SESL-6C	9/18/01 12:27 PM	9/19/01 11:27 AM	1380	23.0	0.12	2.86E+01	2.3E+02	3.4E+01
53	SALL-7	9/22/01 6:50 AM	9/23/01 6:39 AM	1429	23.8	0.12	3.83E+01	3.2E+02	4.8E+01
54	CHUL-7	9/22/01 7:33 AM	9/23/01 7:37 AM	1444	24.1	0.13	2.31E+01	1.8E+02	2.6E+01
55	LJEL-7	9/22/01 8:23 AM	9/23/01 8:36 AM	1453	24.2	0.13	7.65E+01	5.9E+02	8.7E+01
56	PMSL-7	9/22/01 9:20 AM	9/23/01 9:29 AM	1449	24.1	0.13	8.78E+01	6.7E+02	1.0E+02
57	MESL-7	9/22/01 10:29 AM	9/23/01 10:20 AM	1431	23.9	0.13	6.55E+01	5.1E+02	7.6E+01
58	SESL-7	9/22/01 11:02 AM	9/23/01 11:03 AM	1441	24.0	0.13	1.73E+02	1.3E+03	2.0E+02
59	SALL-8	9/23/01 6:48 AM	9/24/01 6:45 AM	1437	24.0	0.13	DET	DET	DET
60	CHUL-8	9/23/01 7:48 AM	9/24/01 7:41 AM	1433	23.9	0.13	2.03E+01	1.6E+02	2.3E+01
61	LJEL-8	9/23/01 8:45 AM	9/24/01 8:39 AM	1434	23.9	0.13	4.40E+01	3.4E+02	5.1E+01
62	PMSL-8	9/23/01 9:38 AM	9/24/01 9:44 AM	1446	24.1	0.13	6.17E+01	4.7E+02	7.1E+01
63	MESL-8	9/23/01 10:27 AM	9/24/01 10:28 AM	1441	24.0	0.13	4.88E+01	3.8E+02	5.6E+01
64	SESL-8	9/23/01 11:10 AM	9/24/01 11:12 AM	1442	24.0	0.13	4.76E+01	3.7E+02	5.5E+01
65	SALL-9	9/24/01 6:52 AM	9/25/01 6:53 AM	1441	24.0	0.13	3.25E+01	2.5E+02	3.7E+01
66	CHUL-9	9/24/01 7:48 AM	9/25/01 7:49 AM	1441	24.0	0.13	2.06E+01	1.6E+02	2.4E+01

MDL=3.96 ng/sample for Chloropicrin

DET=Value was below the EQL of 19.8 ng/sample but ≥MDL

[(1)]pptv at 1 atm and 25^{0}C

Table 2 **Chloropicrin Ambient Monitoring Cartridge Results for Monterey and Santa Cruz Counties 2001**

Log #	Sample ID	Start Date/Time	End Date/Time	Time (min)	Time (hours)	Volume (m^3)	TCNM (ng/sample)	TCNM (ng/m^3)	TCNM [(1)](pptv)
67	LJEL-9	9/24/01 8:50 AM	9/25/01 9:07 AM	1457	24.3	0.13	5.32E+01	4.1E+02	6.0E+01
68	PMSL-9**	9/24/01 9:52 AM	9/25/01 9:56 AM	1444	24.1	0.13	1.76E+02	1.4E+03	2.0E+02
69	MESL-9**	9/24/01 10:37 AM	9/25/01 10:51 AM	1454	24.2	0.13	5.58E+02	4.3E+03	6.3E+02
70	SESL-9	9/24/01 11:20 AM	9/25/01 11:27 AM	1447	24.1	0.13	1.11E+02	8.5E+02	1.3E+02
71	SALL-10	9/25/01 7:07 AM	9/26/01 6:38 AM	1411	23.5	0.13	2.27E+02	1.8E+03	2.7E+02
72	SALL-10FS	9/25/01 7:14 AM	9/26/01 6:47 AM	1413	23.5	0.13	3.40E+02	2.7E+03	4.0E+02
73	SALL-10TS	9/25/01 6:12 AM	NA	NA	NA	NA	1.08E+02	NA	NA
74	SALL-10TB	9/25/01 6:12 AM	NA	NA	NA	NA	<MDL	NA	NA
75	CHUL-10	9/25/01 7:58 AM	9/26/01 7:44 AM	1426	23.8	0.13	1.14E+02	8.9E+02	1.3E+02
76	LJEL-10	9/25/01 9:16 AM	9/26/01 8:37 AM	1401	23.3	0.13	7.48E+01	5.9E+02	8.8E+01
77	PMSL-10	9/25/01 10:09 AM	9/26/01 9:44 AM	1415	23.6	0.13	5.53E+02	4.3E+03	6.5E+02
78	MESL-10	9/25/01 11:01 AM	9/26/01 10:25 AM	1404	23.4	0.13	1.01E+03	8.0E+03	1.2E+03
79	SESL-10	9/25/01 11:36 AM	9/26/01 11:18 AM	1422	23.7	0.13	7.23E+01	5.6E+02	8.4E+01
80	SALL-11	9/26/01 6:56 AM	9/27/01 6:35 AM	1419	23.6	0.13	3.18E+01	2.5E+02	3.7E+01
81	SALL-11C	9/26/01 7:03 AM	9/27/01 6:44 AM	1421	23.7	0.13	3.28E+01	2.6E+02	3.8E+01
82	CHUL-11	9/26/01 8:00 AM	9/27/01 7:33 AM	1413	23.5	0.13	4.46E+01	3.5E+02	5.2E+01
83	CHUL-11C	9/26/01 7:56 AM	9/27/01 7:24 AM	1408	23.5	0.13	2.94E+01	2.3E+02	3.5E+01
84	LJEL-11	9/26/01 8:44 AM	9/27/01 8:11 AM	1407	23.4	0.13	2.66E+01	2.1E+02	3.1E+01
85	LJEL-11C	9/26/01 8:48 AM	9/27/01 8:17 AM	1409	23.5	0.13	DET	DET	DET
86	PMSL-11	9/26/01 9:51 AM	9/27/01 9:00 AM	1389	23.2	0.13	2.16E+02	1.7E+03	2.6E+02
87	PMSL-11C	9/26/01 9:54 AM	9/27/01 9:07 AM	1393	23.2	0.13	1.97E+02	1.6E+03	2.3E+02
88	MESL-11	9/26/01 10:36 AM	9/27/01 9:43 AM	1387	23.1	0.12	4.09E+02	3.3E+03	4.9E+02
89	MESL-11C	9/26/01 10:45 AM	9/27/01 9:51 AM	1386	23.1	0.12	4.40E+02	3.5E+03	5.2E+02
90	SESL-11	9/26/01 11:23 AM	9/27/01 10:30 AM	1387	23.1	0.12	1.66E+02	1.3E+03	2.0E+02
91	SESL-11C	9/26/01 11:27 AM	9/27/01 10:38 AM	1391	23.2	0.13	1.63E+02	1.3E+03	1.9E+02
92	SALL-12	9/27/01 6:50 AM	9/28/01 6:55 AM	1445	24.1	0.13	3.13E+01	2.4E+02	3.6E+01
93	CHUL-12	9/27/01 7:37 AM	9/28/01 7:29 AM	1432	23.9	0.13	2.69E+01	2.1E+02	3.1E+01
94	LJEL-12	9/27/01 8:21 AM	9/28/01 8:08 AM	1427	23.8	0.13	DET	DET	DET
95	PMSL-12	9/27/01 9:11 AM	9/28/01 8:48 AM	1417	23.6	0.13	3.37E+02	2.6E+03	3.9E+02
96	MESL-12	9/27/01 9:56 AM	9/28/01 9:22 AM	1406	23.4	0.13	5.25E+02	4.2E+03	6.2E+02
97	SESL-12	9/27/01 10:42 AM	9/28/01 9:48 AM	1386	23.1	0.12	5.82E+01	4.7E+02	6.9E+01
98	SALL-13	10/3/01 7:24 AM	10/4/01 7:24 AM	1440	24.0	0.13	DET	DET	DET
99	SALL-13TB	10/4/01 7:02 AM	NA	NA	NA	NA	<MDL	NA	NA

MDL=3.96 ng/sample for Chloropicrin

DET=Value was below the EQL of 19.8 ng/sample but ≥MDL

[(1)]pptv at 1 atm and 25°C

Table 2 **Chloropicrin Ambient Monitoring Cartridge Results for Monterey and Santa Cruz Counties 2001**

Log #	Sample ID	Start Date/Time	End Date/Time	Time (min)	Time (hours)	Volume (m^3)	TCNM (ng/sample)	TCNM (ng/m^3)	TCNM [(1)](pptv)
100	CHUL-13	10/3/01 8:14 AM	10/4/01 8:27 AM	1453	24.2	0.13	DET	DET	DET
101	LJEL-13	10/3/01 9:05 AM	10/4/01 9:35 AM	1470	24.5	0.13	2.10E+01	1.6E+02	2.4E+01
102	PMSL-13	10/3/01 10:00 AM	10/4/01 10:35 AM	1475	24.6	0.13	2.24E+01	1.7E+02	2.5E+01
103	MESL-13	10/3/01 10:59 AM	10/4/01 11:37 AM	1478	24.6	0.13	DET	DET	DET
104	SESL-13	10/3/01 11:45 AM	10/4/01 12:33 PM	1488	24.8	0.13	7.27E+01	5.4E+02	8.1E+01
105	SALL-14	10/4/01 7:34 AM	10/5/01 7:35 AM	1441	24.0	0.13	<MDL	<MDL	<MDL
106	SALL-14C	10/4/01 7:40 AM	10/5/01 6:54 AM	1394	23.2	0.13	DET	DET	DET
107	CHUL-14	10/4/01 8:40 AM	10/5/01 7:46 AM	1386	23.1	0.12	<MDL	<MDL	<MDL
108	CHUL-14C	10/4/01 8:47 AM	10/5/01 7:57 AM	1390	23.2	0.13	DET	DET	DET
109	LJEL-14	10/4/01 9:42 AM	10/5/01 8:55 AM	1393	23.2	0.12	DET	DET	DET
110	LJEL-14C	10/4/01 9:45 AM	10/5/01 9:07 AM	1402	23.4	0.13	DET	DET	DET
111	PMSL-14	10/4/01 10:44 AM	10/5/01 10:04 AM	1400	23.3	0.13	7.56E+01	6.0E+02	8.9E+01
112	PMSL-14C	10/4/01 10:49 AM	10/5/01 10:14 AM	1405	23.4	0.13	6.65E+01	5.3E+02	7.8E+01
113	MESL-14	10/4/01 11:46 AM	10/5/01 11:09 AM	1403	23.4	0.13	9.87E+01	7.8E+02	1.2E+02
114	MESL-14C	10/4/01 11:55 AM	10/5/01 11:28 AM	1413	23.5	0.13	9.20E+01	7.2E+02	1.1E+02
115	SESL-14	10/4/01 12:42 PM	10/5/01 12:30 PM	1428	23.8	0.13	4.53E+01	3.5E+02	5.2E+01
116	SESL-14C	10/4/01 12:49 PM	10/5/01 12:42 PM	1433	23.9	0.13	4.11E+01	3.2E+02	4.7E+01
117	SALL-15	10/5/01 7:02 AM	10/6/01 6:43 AM	1421	23.7	0.13	DET	DET	DET
118	CHUL-15	10/5/01 8:05 AM	10/6/01 7:46 AM	1421	23.7	0.13	DET	DET	DET
119	LJEL-15	10/5/01 9:14 AM	10/6/01 8:38 AM	1404	23.4	0.13	DET	DET	DET
120	PMSL-15	10/5/01 10:23 AM	10/6/01 9:43 AM	1400	23.3	0.13	1.52E+02	1.2E+03	1.8E+02
121	MESL-15	10/5/01 11:40 AM	10/6/01 10:43 AM	1383	23.1	0.12	1.48E+02	1.2E+03	1.8E+02
122	SESL-15	10/5/01 12:54 PM	10/6/01 11:56 AM	1382	23.0	0.12	9.02E+01	7.3E+02	1.1E+02
123	SALL-16	10/6/01 6:50 AM	10/7/01 6:41 AM	1431	23.9	0.13	1.01E+02	7.8E+02	1.2E+02
124	CHUL-16	10/6/01 7:53 AM	10/7/01 7:35 AM	1422	23.7	0.13	4.93E+01	3.8E+02	5.7E+01
125	LJEL-16	10/6/01 8:46 AM	10/7/01 8:26 AM	1420	23.7	0.13	3.38E+01	2.6E+02	3.9E+01
126	PMSL-16	10/6/01 9:51 AM	10/7/01 9:32 AM	1421	23.7	0.13	3.28E+02	2.6E+03	3.8E+02
127	MESL-16	10/6/01 10:52 AM	10/7/01 10:19 AM	1407	23.4	0.12	8.72E+02	7.2E+03	1.1E+03
128	SESL-16	10/6/01 12:03 PM	10/7/01 11:27 AM	1404	23.4	0.13	2.10E+01	1.7E+02	2.5E+01
129	SALL-17	10/11/01 7:06 AM	10/12/01 6:47 AM	1421	23.7	0.13	1.08E+02	8.5E+02	1.3E+02
130	SALL-17TS	10/12/01 7:00 AM	NA	NA	NA	NA	1.08E+02	NA	NA
131	SALL-17TB	10/12/01 7:02 AM	NA	NA	NA	NA	<MDL	NA	NA
132	SALL-17FS	10/11/01 7:16 AM	10/12/01 7:05 AM	1429	23.8	0.13	2.26E+02	1.8E+03	2.6E+02

MDL=3.96 ng/sample for Chloropicrin

DET=Value was below the EQL of 19.8 ng/sample but ≥MDL

(1)pptv at 1 atm and 25^{0}C

Table 2 **Chloropicrin Ambient Monitoring Cartridge Results for Monterey and Santa Cruz Counties 2001**

Log #	Sample ID	Start Date/Time	End Date/Time	Time (min)	Time (hours)	Volume (m^3)	TCNM (ng/sample)	TCNM (ng/m^3)	TCNM [(1)](pptv)
133	CHUL-17	10/11/01 8:12 AM	10/12/01 8:14 AM	1442	24.0	0.11	6.53E+01	5.8E+02	8.6E+01
134	LJEL-17	10/11/01 9:09 AM	10/12/01 9:20 AM	1451	24.2	0.12	7.61E+01	6.2E+02	9.2E+01
135	PMSL-17	10/11/01 10:03 AM	10/12/01 10:25 AM	1462	24.4	0.13	1.42E+02	1.1E+03	1.6E+02
136	MESL-17	10/11/01 10:53 AM	10/12/01 11:08 AM	1455	24.2	0.13	3.03E+02	2.3E+03	3.4E+02
137	SESL-17	10/11/01 11:29 AM	10/12/01 11:50 AM	1461	24.3	0.13	7.05E+01	5.4E+02	8.0E+01
138	SALL-18	10/12/01 7:21 AM	10/13/01 6:44 AM	1403	23.4	0.13	3.41E+02	2.7E+03	4.0E+02
139	SALL-18C	10/12/01 7:28 AM	10/13/01 6:57 AM	1409	23.5	0.11	3.58E+02	3.3E+03	4.9E+02
140	CHUL-18	10/12/01 8:28 AM	10/13/01 8:00 AM	1412	23.5	0.13	8.57E+01	6.7E+02	1.0E+02
141	CHUL-18C	10/12/01 8:35 AM	10/13/01 8:10 AM	1415	23.6	0.13	8.63E+01	6.8E+02	1.0E+02
142	LJEL-18	10/12/01 9:34 AM	10/13/01 9:09 AM	1415	23.6	0.13	3.15E+02	2.5E+03	3.7E+02
143	LJEL-18C	10/12/01 9:39 AM	10/13/01 9:20 AM	1421	23.7	0.13	3.32E+02	2.6E+03	3.9E+02
144	PMSL-18	10/12/01 10:33 AM	10/13/01 10:17 AM	1424	23.7	0.13	9.83E+02	7.7E+03	1.1E+03
145	PMSL-18C	10/12/01 10:38 AM	10/13/01 10:27 AM	1429	23.8	0.13	9.74E+02	7.6E+03	1.1E+03
146	MESL-18	10/12/01 11:19 AM	10/13/01 11:15 AM	1436	23.9	0.13	3.70E+02	2.9E+03	4.3E+02
147	MESL-18C	10/12/01 11:25 AM	10/13/01 11:24 AM	1439	24.0	0.13	4.12E+02	3.2E+03	4.7E+02
148	SESL-18	10/12/01 12:14 PM	10/13/01 12:04 PM	1430	23.8	0.13	1.48E+02	1.2E+03	1.7E+02
149	SESL-18C	10/12/01 12:20 PM	10/13/01 12:14 PM	1434	23.9	0.13	1.43E+02	1.1E+03	1.6E+02
150	SALL-19	10/13/01 7:04 AM	10/14/01 6:58 AM	1434	23.9	0.13	4.05E+02	3.1E+03	4.7E+02
151	CHUL-19	10/13/01 8:21 AM	10/14/01 7:54 AM	1413	23.6	0.13	1.34E+02	1.1E+03	1.6E+02
152	LJEL-19	10/13/01 9:29 AM	10/14/01 8:50 AM	1401	23.3	0.13	1.10E+03	8.7E+03	1.3E+03
153	PMSL-19	10/13/01 10:34 AM	10/14/01 9:44 AM	1390	23.2	0.13	5.73E+02	4.6E+03	6.8E+02
154	MESL-19	10/13/01 11:33 AM	10/14/01 10:46 AM	1393	23.2	0.13	2.82E+02	2.2E+03	3.3E+02
155	SESL-19	10/13/01 12:23 PM	10/14/01 11:31 AM	1388	23.1	0.12	2.41E+02	1.9E+03	2.9E+02
156	SALL-20	10/14/01 7:06 AM	10/15/01 6:08 AM	1382	23.0	0.12	2.88E+02	2.3E+03	3.4E+02
157	CHUL-20	10/14/01 8:04 AM	10/15/01 7:04 AM	1380	23.0	0.12	6.54E+01	5.3E+02	7.8E+01
158	LJEL-20	10/14/01 8:58 AM	10/15/01 7:58 AM	1380	23.0	0.12	4.94E+02	4.0E+03	5.9E+02
159	PMSL-20	10/14/01 9:52 AM	10/15/01 8:52 AM	1380	23.0	0.12	3.44E+02	2.8E+03	4.1E+02
160	MESL-20	10/14/01 10:54 AM	10/15/01 9:54 AM	1380	23.0	0.12	1.65E+02	1.3E+03	2.0E+02
161	SESL-20	10/14/01 11:37 AM	10/15/01 10:37 AM	1380	23.0	0.12	6.63E+01	5.3E+02	7.9E+01
162	SALL-21**	10/19/01 6:42 AM	10/20/01 6:21 AM	1419	23.6	0.13	7.77E+01	6.1E+02	9.1E+01
163	SALL-21C**	10/19/01 6:51 AM	10/20/01 6:36 AM	1425	23.8	0.13	8.35E+01	6.5E+02	9.7E+01
164	CHUL-21**	10/19/01 7:40 AM	10/20/01 7:31 AM	1431	23.9	INVALID	INVALID	INVALID	INVALID
165	CHUL-21C**	10/19/01 7:47 AM	10/20/01 7:42 AM	1435	23.9	INVALID	INVALID	INVALID	INVALID

MDL=3.96 ng/sample for Chloropicrin

DET=Value was below the EQL of 19.8 ng/sample but ≥MDL

[(1)]pptv at 1 atm and 25^{0}C

Table 2 **Chloropicrin Ambient Monitoring Cartridge Results for Monterey and Santa Cruz Counties 2001**

Log #	Sample ID	Start Date/Time	End Date/Time	Time (min)	Time (hours)	Volume (m^3)	TCNM (ng/sample)	TCNM (ng/m^3)	TCNM [(1)](pptv)
166	LJEL-21**	10/19/01 8:35 AM	10/20/01 8:48 AM	1453	24.2	0.13	1.54E+02	1.2E+03	1.8E+02
167	LJEL-21C**	10/19/01 8:42 AM	10/20/01 9:04 AM	1462	24.4	0.13	1.15E+02	8.7E+02	1.3E+02
168	PMSL-21	10/19/01 9:28 AM	10/20/01 9:51 AM	1463	24.4	0.13	1.35E+02	1.0E+03	1.5E+02
169	PMSL-21C	10/19/01 9:35 AM	10/20/01 10:05 AM	1470	24.5	0.13	1.45E+02	1.1E+03	1.6E+02
170	MESL-21**	10/19/01 10:09 AM	10/20/01 10:43 AM	1474	24.6	0.13	4.65E+02	3.5E+03	5.2E+02
171	MESL-21C**	10/19/01 10:17 AM	10/20/01 10:54 AM	1477	24.6	INVALID	INVALID	INVALID	INVALID
172	SESL-21**	10/19/01 10:52 AM	10/20/01 11:41 AM	1489	24.8	0.13	1.72E+02	1.3E+03	1.9E+02
173	SESL-21C**	10/19/01 11:00 AM	10/20/01 11:51 AM	1491	24.8	0.13	1.74E+02	1.3E+03	1.9E+02
174	SALL-22	10/20/01 6:30 AM	10/21/01 6:22 AM	1432	23.9	0.13	3.81E+01	3.0E+02	4.4E+01
175	CHUL-22	10/20/01 8:04 AM	10/21/01 7:42 AM	1418	23.6	0.12	2.80E+01	2.4E+02	3.5E+01
176	LJEL-22	10/20/01 8:59 AM	10/21/01 8:54 AM	1435	23.9	0.13	3.45E+01	2.7E+02	4.0E+01
177	PMSL-22	10/20/01 10:00 AM	10/21/01 9:52 AM	1432	23.9	0.13	4.07E+01	3.2E+02	4.7E+01
178	MESL-22	10/20/01 11:09 AM	10/21/01 10:43 AM	1414	23.6	0.13	4.10E+01	3.2E+02	4.8E+01
179	SESL-22	10/20/01 11:59 AM	10/21/01 11:33 AM	1414	23.6	0.13	4.60E+01	3.6E+02	5.4E+01
180	SALL-23	10/21/01 6:32 AM	10/22/01 6:00 AM	1408	23.5	0.13	DET	DET	DET
181	CHUL-23	10/21/01 7:55 AM	10/22/01 7:22 AM	1407	23.4	0.13	3.32E+01	2.6E+02	3.9E+01
182	LJEL-23	10/21/01 9:02 AM	10/22/01 8:29 AM	1407	23.5	0.13	DET	DET	DET
183	PMSL-23	10/21/01 10:01 AM	10/22/01 9:26 AM	1405	23.4	0.13	4.80E+01	3.8E+02	5.6E+01
184	MESL-23	10/21/01 10:53 AM	10/22/01 10:12 AM	1399	23.3	0.13	7.72E+01	6.1E+02	9.1E+01
185	SESL-23	10/21/01 11:42 AM	10/22/01 10:58 AM	1396	23.3	0.13	3.93E+01	3.1E+02	4.6E+01
186	SALL-24TB	10/22/01 6:08 AM	NA	NA	NA	NA	<MDL	NA	NA
187	SALL-24	10/22/01 6:16 AM	10/23/01 6:28 AM	1452	24.2	0.13	1.11E+02	8.5E+02	1.3E+02
188	CHUL-24	10/22/01 7:31 AM	10/23/01 7:19 AM	1428	23.8	0.13	1.82E+02	1.4E+03	2.1E+02
189	LJEL-24	10/22/01 8:39 AM	10/23/01 8:05 AM	1406	23.4	0.13	4.90E+02	3.9E+03	5.8E+02
190	PMSL-24	10/22/01 9:35 AM	10/23/01 8:48 AM	1393	23.2	0.14	1.40E+02	1.0E+03	1.5E+02
191	MESL-24	10/22/01 10:21 AM	10/23/01 9:24 AM	1383	23.1	0.12	1.98E+02	1.6E+03	2.4E+02
192	SESL-24	10/22/01 11:08 AM	10/23/01 10:08 AM	1380	23.0	0.12	2.10E+02	1.7E+03	2.5E+02
193	SALL-25	10/27/01 7:19 AM	10/28/01 7:05 AM	1426	23.8	0.13	9.80E+01	7.6E+02	1.1E+02
194	SALL-25C	10/27/01 7:27 AM	10/28/01 7:14 AM	1427	23.8	0.11	9.68E+01	8.7E+02	1.3E+02
195	CHUL-25	10/27/01 8:11 AM	10/28/01 8:10 AM	1439	24.0	0.13	2.87E+01	2.2E+02	3.3E+01
196	CHUL-25C	10/27/01 8:20 AM	10/28/01 8:23 AM	1443	24.1	0.13	3.05E+01	2.3E+02	3.5E+01
197	LJEL-25	10/27/01 9:02 AM	10/28/01 9:05 AM	1443	24.0	0.13	2.17E+02	1.7E+03	2.5E+02
198	LJEL-25C	10/27/01 9:09 AM	10/28/01 9:17 AM	1448	24.1	0.13	2.28E+02	1.7E+03	2.6E+02

MDL=3.96 ng/sample for Chloropicrin

DET=Value was below the EQL of 19.8 ng/sample but ≥MDL

[(1)]pptv at 1 atm and 25^{0}C

Table 2 **Chloropicrin Ambient Monitoring Cartridge Results for Monterey and Santa Cruz Counties 2001**

Log #	Sample ID	Start Date/Time	End Date/Time	Time (min)	Time (hours)	Volume (m^3)	TCNM (ng/sample)	TCNM (ng/m^3)	TCNM [(1)](pptv)
199	PMSL-25	10/27/01 9:59 AM	10/28/01 10:11 AM	1452	24.2	0.12	1.28E+02	1.1E+03	1.6E+02
200	PMSL-25C	10/27/01 10:07 AM	10/28/01 10:24 AM	1457	24.3	0.13	1.30E+02	9.9E+02	1.5E+02
201	MESL-25	10/27/01 10:41 AM	10/28/01 11:01 AM	1460	24.3	0.12	1.82E+02	1.5E+03	2.2E+02
202	MESL-25C	10/27/01 10:48 AM	10/28/01 11:14 AM	1466	24.4	0.13	2.01E+02	1.5E+03	2.3E+02
203	SESL-25	10/27/01 11:29 AM	10/28/01 11:47 AM	1458	24.3	0.13	4.35E+01	3.3E+02	4.9E+01
204	SESL-25C	10/27/01 11:38 AM	10/28/01 11:57 AM	1459	24.3	0.13	4.41E+01	3.4E+02	5.0E+01
205	SALL-26TB	10/28/01 12:00 AM	NA	NA	NA	NA	<MDL	NA	NA
206	SALL-26TS	10/28/01 12:00 AM	NA	NA	NA	NA	1.07E+02	NA	NA
207	SALL-26FS	10/28/01 7:24 AM	10/29/01 7:13 AM	1429	23.8	0.12	1.70E+02	1.4E+03	2.1E+02
208	SALL-26	10/28/01 7:29 AM	10/29/01 7:22 AM	1433	23.9	0.13	6.92E+01	5.4E+02	8.0E+01
209	CHUL-26	10/28/01 8:17 AM	10/29/01 8:20 AM	1443	24.0	0.13	2.41E+01	1.9E+02	2.8E+01
210	LJEL-26	10/28/01 9:11 AM	10/29/01 9:22 AM	1451	24.2	0.13	1.87E+03	1.4E+04	2.1E+03
211	PMSL-26	10/28/01 10:18 AM	10/29/01 10:28 AM	1450	24.2	0.13	4.22E+01	3.2E+02	4.8E+01
212	MESL-26	10/28/01 11:08 AM	10/29/01 11:14 AM	1446	24.1	0.13	1.89E+02	1.5E+03	2.2E+02
213	SESL-26	10/28/01 11:53 AM	10/29/01 11:59 AM	1446	24.1	0.13	5.09E+01	3.9E+02	5.8E+01
214	SALL-27	10/29/01 7:29 AM	10/30/01 7:05 AM	1416	23.6	0.13	7.03E+01	5.5E+02	8.2E+01
215	CHUL-27	10/29/01 8:29 AM	10/30/01 8:06 AM	1417	23.6	0.13	4.31E+01	3.4E+02	5.0E+01
216	LJEL-27	10/29/01 9:30 AM	10/30/01 9:08 AM	1418	23.6	0.13	8.75E+02	6.9E+03	1.0E+03
217	PMSL-27	10/29/01 10:34 AM	10/30/01 10:20 AM	1426	23.8	0.13	1.45E+02	1.1E+03	1.7E+02
218	MESL-27	10/29/01 11:21 AM	10/30/01 11:14 AM	1433	23.9	0.13	2.36E+02	1.8E+03	2.7E+02
219	SESL-27**	10/29/01 12:06 PM	10/30/01 12:02 PM	1436	23.9	INVALID	INVALID	INVALID	INVALID
220	SALL-28	10/30/01 7:09 AM	10/31/01 7:07 AM	1438	24.0	0.13	4.47E+01	3.5E+02	5.1E+01
221	CHUL-28	10/30/01 8:10 AM	10/31/01 7:52 AM	1422	23.7	0.13	3.18E+01	2.5E+02	3.7E+01
222	LJEL-28	10/30/01 9:13 AM	10/31/01 8:48 AM	1415	23.6	0.13	2.26E+02	1.8E+03	2.6E+02
223	PMSL-28	10/30/01 10:24 AM	10/31/01 9:41 AM	1397	23.3	0.13	2.44E+01	1.9E+02	2.9E+01
224	MESL-28	10/30/01 11:17 AM	10/31/01 10:33 AM	1396	23.3	0.13	5.81E+01	4.6E+02	6.9E+01
225	SESL-28	10/30/01 12:10 PM	10/31/01 11:15 AM	1385	23.1	0.12	<MDL	<MDL	<MDL
226	SALL-29**	11/4/01 6:45 AM	11/5/01 6:42 AM	1437	24.0	0.13	2.18E+01	1.7E+02	2.5E+01
227	SALL-29C**	11/4/01 6:45 AM	11/5/01 6:55 AM	1450	24.2	0.13	2.04E+01	1.6E+02	2.3E+01
228	CHUL-29**	11/4/01 7:50 AM	11/5/01 8:02 AM	1452	24.2	0.13	2.47E+01	1.9E+02	2.8E+01
229	CHUL-29C**	11/4/01 7:50 AM	11/5/01 8:17 AM	1467	24.4	INVALID	INVALID	INVALID	INVALID
230	LJEL-29	11/4/01 8:48 AM	11/5/01 9:21 AM	1473	24.5	0.13	2.87E+01	2.2E+02	3.2E+01
231	LJEL-29C	11/4/01 8:48 AM	11/5/01 9:10 AM	1462	24.4	0.13	2.69E+01	2.0E+02	3.0E+01

MDL=3.96 ng/sample for Chloropicrin

DET=Value was below the EQL of 19.8 ng/sample but ≥MDL

[(1)]pptv at 1 atm and 25^{0}C

Table 2 **Chloropicrin Ambient Monitoring Cartridge Results for Monterey and Santa Cruz Counties 2001**

Log #	Sample ID	Start Date/Time	End Date/Time	Time (min)	Time (hours)	Volume (m^3)	TCNM (ng/sample)	TCNM (ng/m^3)	TCNM [(1)](pptv)
232	PMSL-29	11/4/01 9:44 AM	11/5/01 10:41 AM	1497	25.0	0.13	DET	DET	DET
233	PMSL-29C	11/4/01 9:44 AM	11/5/01 10:31 AM	1487	24.8	0.13	DET	DET	DET
234	MESL-29**	11/4/01 10:57 AM	11/5/01 11:52 AM	1495	24.9	0.13	DET	DET	DET
235	MESL-29C**	11/4/01 10:57 AM	11/5/01 11:41 AM	1484	24.7	0.13	DET	DET	DET
236	SESL-29**	11/4/01 11:41 AM	11/5/01 12:36 PM	1495	24.9	0.13	DET	DET	DET
237	SESL-29C**	11/4/01 11:41 AM	11/5/01 12:40 PM	1499	25.0	0.13	DET	DET	DET
238	SALL-30	11/5/01 7:07 AM	11/6/01 6:32 AM	1405	23.4	0.11	DET	DET	DET
239	SALL-30TB	11/5/01 7:15 AM	NA	NA	NA	NA	<MDL	NA	NA
240	CHUL-30	11/5/01 8:28 AM	11/6/01 7:38 AM	1390	23.2	0.13	DET	DET	DET
241	LJEL-30	11/5/01 9:30 AM	11/6/01 8:40 AM	1390	23.2	0.13	1.99E+01	1.6E+02	2.4E+01
242	PMSL-30	11/5/01 10:55 AM	11/6/01 9:57 AM	1382	23.0	0.12	2.92E+01	2.3E+02	3.5E+01
243	MESL-30**	11/5/01 12:01 PM	11/6/01 11:19 AM	1398	23.3	0.11	6.23E+01	5.6E+02	8.3E+01
244	SESL-30**	11/5/01 1:00 PM	11/6/01 12:17 PM	1397	23.3	0.12	DET	DET	DET
245	SALL-31	11/6/01 6:41 AM	11/7/01 6:18 AM	1417	23.6	0.13	DET	DET	DET
246	CHUL-31**	11/6/01 7:51 AM	11/7/01 7:19 AM	1408	23.5	0.13	DET	DET	DET
247	LJEL-31	11/6/01 8:48 AM	11/7/01 8:36 AM	1428	23.8	0.13	DET	DET	DET
248	PMSL-31	11/6/01 10:02 AM	11/7/01 9:44 AM	1422	23.7	0.13	4.30E+01	3.4E+02	5.0E+01
249	MESL-31**	11/6/01 11:35 AM	11/7/01 11:00 AM	1405	23.4	0.13	6.84E+01	5.4E+02	8.0E+01
250	SESL-31**	11/6/01 12:26 PM	11/7/01 11:53 AM	1407	23.4	0.13	5.94E+01	4.7E+02	7.0E+01
251	SALL-32	11/7/01 6:26 AM	11/8/01 6:11 AM	1425	23.8	0.13	DET	DET	DET
252	CHUL-32	11/7/01 7:27 AM	11/8/01 6:58 AM	1411	23.5	0.13	2.58E+01	2.0E+02	3.0E+01
253	LJEL-32	11/7/01 8:44 AM	11/8/01 7:46 AM	1382	23.0	0.12	DET	DET	DET
254	PMSL-32	11/7/01 9:52 AM	11/8/01 9:53 AM	1441	24.0	0.13	2.93E+01	2.3E+02	3.4E+01
255	MESL-32	11/7/01 11:07 AM	11/8/01 10:08 AM	1381	23.0	0.12	3.38E+01	2.7E+02	4.0E+01
256	SESL-32	11/7/01 12:01 PM	11/8/01 11:02 AM	1381	23.0	0.12	9.89E+01	8.0E+02	1.2E+02

MDL=3.96 ng/sample for Chloropicrin
DET=Value was below the EQL of 19.8 ng/sample but ≥MDL
[(1)]pptv at 1 atm and 25^{0}C

Table 3 Summary of 2001 Cartridge Results for Chloropicrin in Monterey and Santa Cruz Counties (ng/m3)

Sample Start Date	CHUL	LJEL	MESL	PMSL	SALL	SESL
9/8/2001	DET	<MDL	<MDL	DET	DET	<MDL
9/9/2001	3.05E+02	2.03E+03	5.32E+02	1.10E+03	3.00E+02	4.09E+02
9/10/2001	2.59E+02	7.94E+02	NA	1.02E+03	1.62E+03	DET
9/11/2001	2.84E+02	3.60E+02	9.74E+02	7.63E+02	8.74E+02	DET
9/17/2001	DET	DET	3.28E+02	5.49E+02	<MDL	3.48E+02
9/18/2001	<MDL	DET	2.84E+02	3.23E+02	DET	3.25E+02
9/22/2001	1.78E+02	5.85E+02	5.09E+02	6.73E+02	3.23E+02	1.33E+03
9/23/2001	1.57E+02	3.41E+02	3.76E+02	4.74E+02	DET	3.67E+02
9/24/2001	1.59E+02	4.06E+02	4.26E+03	1.36E+03	2.51E+02	8.49E+02
9/25/2001	8.86E+02	5.93E+02	7.99E+03	4.34E+03	1.78E+03	5.65E+02
9/26/2001	3.50E+02	2.10E+02	3.53E+03	1.73E+03	2.57E+02	1.33E+03
9/27/2001	2.09E+02	DET	4.15E+03	2.64E+03	2.41E+02	4.66E+02
10/3/2001	DET	1.59E+02	DET	1.69E+02	DET	5.43E+02
10/4/2001	DET	DET	7.82E+02	6.00E+02	DET	3.52E+02
10/5/2001	DET	DET	1.19E+03	1.21E+03	DET	7.25E+02
10/6/2001	3.85E+02	2.65E+02	7.24E+03	2.57E+03	7.85E+02	1.66E+02
10/11/2001	5.81E+02	6.20E+02	2.31E+03	1.08E+03	8.45E+02	5.36E+02
10/12/2001	6.77E+02	2.60E+03	3.18E+03	7.67E+03	3.32E+03	1.15E+03
10/13/2001	1.05E+03	8.71E+03	2.25E+03	4.58E+03	3.13E+03	1.93E+03
10/14/2001	5.27E+02	3.98E+03	1.33E+03	2.77E+03	2.31E+03	5.34E+02
10/19/2001	INVALID	1.18E+03	3.51E+03	1.10E+03	6.51E+02	1.30E+03
10/20/2001	2.38E+02	2.67E+02	3.22E+02	3.16E+02	2.95E+02	3.61E+02
10/21/2001	2.62E+02	DET	6.13E+02	3.80E+02	DET	3.13E+02
10/22/2001	1.42E+03	3.88E+03	1.59E+03	1.02E+03	8.47E+02	1.69E+03
10/27/2001	2.35E+02	1.75E+03	1.52E+03	1.10E+03	8.69E+02	3.36E+02
10/28/2001	1.85E+02	1.43E+04	1.45E+03	3.23E+02	5.36E+02	3.91E+02
10/29/2001	3.38E+02	6.86E+03	1.83E+03	1.13E+03	5.52E+02	INVALID
10/30/2001	2.49E+02	1.77E+03	4.62E+02	1.94E+02	3.46E+02	<MDL
11/4/2001	1.89E+02	2.16E+02	DET	DET	1.68E+02	DET
11/5/2001	DET	1.59E+02	5.61E+02	2.35E+02	DET	DET
11/6/2001	DET	DET	5.41E+02	3.36E+02	DET	4.69E+02
11/7/2001	2.03E+02	DET	2.72E+02	2.26E+02	DET	7.96E+02

Maximum	**1.42E+03**	**1.43E+04**	**7.99E+03**	**7.67E+03**	**3.32E+03**	**1.93E+03**
Average	**3.2E+02**	**1.7E+03**	**1.7E+03**	**1.3E+03**	**6.6E+02**	**5.8E+02**
# Samples	**31**	**32**	**31**	**32**	**32**	**31**
# > EQL	**23**	**23**	**28**	**30**	**21**	**25**
# DET	**7**	**8**	**2**	**2**	**10**	**4**
# < MDL	**1**	**1**	**1**	**0**	**1**	**2**

Only the higher value of each collocated pair was listed in the table.

<MDL results were factored in as MDL/2= 15 ng/m^3

DET results were factored in as (EQL+MDL)/2= 91 ng/m^3

Table 4 2001 Collocated Results for Chloropicrin Cartridge Samples in Monterey and Santa Cruz Counties

Sample ID	Chloropicrin		
	ng/m3	Average	Rel. Diff.
SALL-2	3.00E+02		
SALL-2C	2.01E+02	2.50E+02	40%
CHUL-2	3.05E+02		
CHUL-2C	2.61E+02	2.83E+02	16%
LJRL-2	1.88E+03		
LJEL-2C	2.03E+03	1.96E+03	8%
PMSL-2	1.10E+03		
PMSL-2C	1.02E+03	1.06E+03	8%
MESL-2	5.20E+02		
MESL-2C	5.32E+02	5.26E+02	2%
SESL-2	4.09E+02		
SESL-2C	2.55E+02	3.32E+02	46%
SALL-6	DET		
SALL-6C	<MDL	NA	NA
CHUL-6	<MDL		
CHUL-6C	<MDL	<MDL	<MDL
LJEL-6	DET		
LJEL-6C	DET	DET	DET
PMSL-6	3.21E+02		
PMSL-6C	3.23E+02	3.22E+02	0%
MESL-6	1.74E+02		
MESL-6C	2.84E+02	2.29E+02	48%
SESL-6	3.25E+02		
SESL-6C	2.30E+02	2.78E+02	34%
SALL-11	2.49E+02		
SALL-11C	2.57E+02	2.53E+02	3%
CHUL-11	3.50E+02		
CHUL-11C	2.32E+02	2.91E+02	41%
LJEL-11	2.10E+02		
LJEL-11C	DET	NA	NA
PMSL-11	1.73E+03		
PMSL-11C	1.57E+03	1.65E+03	10%
MESL-11	3.28E+03		
MESL-11C	3.53E+03	3.40E+03	7%
SESL-11	1.33E+03		
SESL-11C	1.30E+03	1.32E+03	2%
SALL-14	<MDL		
SALL-14C	DET	NA	NA
CHUL-14	<MDL		
CHUL-14C	DET	NA	NA
LJEL-14	DET		
LJEL-14C	DET	DET	DET
PMSL-14	6.00E+02		
PMSL-14C	5.26E+02	5.63E+02	13%
MESL-14	7.82E+02		
MESL-14C	7.23E+02	7.53E+02	8%
SESL-14	3.52E+02		
SESL-14C	3.19E+02	3.36E+02	10%

Sample ID	Chloropicrin		
	ng/m3	Average	Rel. Diff.
SALL-18	2.70E+03		
SALL-18C	3.32E+03	3.01E+03	21%
CHUL-18	6.74E+02		
CHUL-18C	6.77E+02	6.76E+02	0%
LJEL-18	2.47E+03		
LJEL-18C	2.60E+03	2.54E+03	5%
PMSL-18	7.67E+03		
PMSL-18C	7.58E+03	7.62E+03	1%
MESL-18	2.87E+03		
MESL-18C	3.18E+03	3.02E+03	10%
SESL-18	1.15E+03		
SESL-18C	1.11E+03	1.13E+03	4%
SALL-21	6.09E+02		
SALL-21C	6.51E+02	6.30E+02	7%
CHUL-21	INVALD		
CHUL-21C	INVALID	NA	NA
LJEL-21	1.18E+03		
LJEL-21C	8.72E+02	1.03E+03	30%
PMSL-21	1.02E+03		
PMSL-21C	1.10E+03	1.06E+03	7%
MESL-21	3.51E+03		
MESL-21C	INVALID	NA	NA
SESL-21	1.29E+03		
SESL-21C	1.30E+03	1.29E+03	1%
SALL-25	7.63E+02		
SALL-25C	8.69E+02	8.16E+02	13%
CHUL-25	2.22E+02		
CHUL-25C	2.35E+02	2.28E+02	6%
LJEL-25	1.67E+03		
LJEL-25C	1.75E+03	1.71E+03	4%
PMSL-25	1.10E+03		
PMSL-25C	9.91E+02	1.04E+03	10%
MESL-25	1.49E+03		
MESL-25C	1.52E+03	1.51E+03	2%
SESL-25	3.32E+02		
SESL-25C	3.36E+02	3.34E+02	1%
SALL-29	1.68E+02		
SALL-29C	1.56E+02	1.62E+02	7%
CHUL-29	1.89E+02		
CHUL-29C	INVALID	NA	NA
LJEL-29	2.16E+02		
LJEL-29C	2.04E+02	2.10E+02	6%
PMSL-29	DET		
PMSL-29C	DET	DET	DET
MESL-29	DET		
MESL-29C	DET	DET	DET
SESL-29	DET		
SESL-29C	DET	DET	DET
		Average =	**12%**

Table 5 **MITC Ambient Monitoring Results for Monterey and Santa Cruz Counties 2001**

Log #	Sample ID	Start Date/Time	End Date/Time	Time (min)	Time (hours)	Volume (m^3)	MITC (ug/sample)	MITC (ug/m^3)	MITC [(1)](pptv)
1	SALT-1	9/8/01 6:45 AM	9/9/01 6:46 AM	1441	24.0	3.60	<MDL	<MDL	<MDL
2	SALT-1FS	9/8/01 6:53 AM	9/9/01 6:58 AM	1445	24.1	3.61	6.18	1.7E+00	5.7E+02
3	CHUT-1	9/8/01 7:28 AM	9/9/01 7:38 AM	1450	24.2	3.63	<MDL	<MDL	<MDL
4	LJET-1	9/8/01 8:11 AM	9/9/01 8:23 AM	1452	24.2	3.63	<MDL	<MDL	<MDL
5	PMST-1	9/8/01 8:59 AM	9/9/01 9:13 AM	1454	24.2	3.64	<MDL	<MDL	<MDL
6	MEST-1	9/8/01 9:37 AM	9/9/01 9:56 AM	1459	24.3	3.65	<MDL	<MDL	<MDL
7	SEST-1	9/8/01 10:10 AM	9/9/01 10:33 AM	1463	24.4	3.66	<MDL	<MDL	<MDL
8	SALT-1-TB	9/9/01 7:09 AM	NA	NA	NA	NA	<MDL	NA	NA
9	SALT-2	9/9/01 6:51 AM	9/10/01 6:36 AM	1425	23.8	3.56	<MDL	<MDL	<MDL
10	SALT-2C	9/9/01 7:02 AM	9/10/01 6:52 AM	1430	23.8	3.57	<MDL	<MDL	<MDL
11	CHUT-2	9/9/01 7:44 AM	9/10/01 7:52 AM	1448	24.1	3.62	<MDL	<MDL	<MDL
12	CHUT-2C	9/9/01 7:53 AM	9/10/01 7:44 AM	1431	23.9	3.58	<MDL	<MDL	<MDL
13	LJET-2	9/9/01 8:30 AM	9/10/01 8:33 AM	1443	24.0	3.61	<MDL	<MDL	<MDL
14	LJET-2C	9/9/01 8:37 AM	9/10/01 8:40 AM	1443	24.0	3.61	<MDL	<MDL	<MDL
15	PMST-2	9/9/01 9:19 AM	9/10/01 9:34 AM	1455	24.2	3.64	<MDL	<MDL	<MDL
16	PMST-2C	9/9/01 9:26 AM	9/10/01 9:39 AM	1453	24.2	3.63	<MDL	<MDL	<MDL
17	MEST-2	9/9/01 10:02 AM	9/10/01 10:08 AM	1446	24.1	3.61	<MDL	<MDL	<MDL
18	MEST-2C	9/9/01 10:08 AM	9/10/01 10:17 AM	1449	24.1	3.62	<MDL	<MDL	<MDL
19	SEST-2	9/9/01 10:39 AM	9/10/01 10:53 AM	1454	24.2	3.64	<MDL	<MDL	<MDL
20	SEST-2C	9/9/01 10:45 AM	9/10/01 10:58 AM	1453	24.2	3.63	<MDL	<MDL	<MDL
21	SEST-1TS	9/9/01 10:58 AM	NA	NA	NA	NA	6.09	NA	NA
22	SALT-3	9/10/01 6:44 AM	9/11/01 6:37 AM	1433	23.9	3.58	<MDL	<MDL	<MDL
23	CHUT-3	9/10/01 7:46 AM	9/11/01 7:27 AM	1421	23.7	3.55	<MDL	<MDL	<MDL
24	LJET-3	9/10/01 8:36 AM	9/11/01 8:21 AM	1425	23.8	3.56	<MDL	<MDL	<MDL
25	PMST-3	9/10/01 9:36 AM	9/11/01 9:29 AM	1433	23.9	3.58	<MDL	<MDL	<MDL
26	MEST-3	9/10/01 10:14 AM	9/11/01 10:12 AM	1438	24.0	3.60	<MDL	<MDL	<MDL
27	SEST-3	9/10/01 10:56 AM	9/11/01 10:56 AM	1440	24.0	3.60	<MDL	<MDL	<MDL
28	SALT-4	9/11/01 6:45 AM	9/12/01 6:43 AM	1438	24.0	3.60	<MDL	<MDL	<MDL
29	CHUT-4	9/11/01 7:34 AM	9/12/01 7:29 AM	1435	23.9	3.59	<MDL	<MDL	<MDL
30	LJET-4	9/11/01 8:29 AM	9/12/01 8:25 AM	1436	23.9	3.59	<MDL	<MDL	<MDL
31	PMST-4	9/11/01 9:30 AM	9/12/01 9:12 AM	1422	23.7	3.55	<MDL	<MDL	<MDL
32	MEST-4	9/11/01 10:20 AM	9/12/01 9:50 AM	1410	23.5	3.52	<MDL	<MDL	<MDL

MDL=0.3 ug/sample for MITC

DET=value below EQL of 1.5 ug/sample but >_ MDL

[(1)]pptv at 1 atm and 25 ^{0}C

Table 5 **MITC Ambient Monitoring Results for Monterey and Santa Cruz Counties 2001**

Log #	Sample ID	Start Date/Time	End Date/Time	Time (min)	Time (hours)	Volume (m^3)	MITC (ug/sample)	MITC (ug/m^3)	MITC [(1)](pptv)
33	SEST-4	9/11/01 11:05 AM	9/12/01 10:31 AM	1406	23.4	3.52	<MDL	<MDL	<MDL
34	SALT-5	9/17/01 6:47 AM	9/18/01 6:25 AM	1418	23.6	3.55	<MDL	<MDL	<MDL
35	CHUT-5**	9/17/01 7:28 AM	9/18/01 7:10 AM	1422	23.7	3.55	<MDL	<MDL	<MDL
36	LJET-5	9/17/01 8:12 AM	9/18/01 10:16 AM	1564	26.1	3.91	<MDL	<MDL	<MDL
37	PMST-5	9/17/01 9:00 AM	9/18/01 11:03 AM	1563	26.1	3.91	<MDL	<MDL	<MDL
38	MEST-5	9/17/01 9:25 AM	9/18/01 11:37 AM	1572	26.2	3.93	<MDL	<MDL	<MDL
39	SEST-5	9/17/01 9:47 AM	9/18/01 12:10 PM	1583	26.4	3.96	<MDL	<MDL	<MDL
40	SALT-5TB	9/18/01 7:28 AM	NA	NA	NA	NA	<MDL	NA	NA
41	SALT-6	9/18/01 6:31 AM	9/19/01 7:26 AM	1495	24.9	3.74	<MDL	<MDL	<MDL
42	SALT-6C	9/18/01 6:38 AM	9/19/01 7:33 AM	1495	24.9	3.74	<MDL	<MDL	<MDL
43	CHUT-6	9/18/01 7:18 AM	9/19/01 8:01 AM	1483	24.7	3.71	<MDL	<MDL	<MDL
44	CHUT-6C	9/18/01 8:25 AM	9/19/01 8:08 AM	1423	23.7	3.56	<MDL	<MDL	<MDL
45	LJET-6	9/18/01 10:25 AM	9/19/01 9:31 AM	1386	23.1	3.46	<MDL	<MDL	<MDL
46	LJET-6C	9/18/01 10:29 AM	9/19/01 9:36 AM	1387	23.1	3.47	<MDL	<MDL	<MDL
47	PMST-6	9/18/01 11:11 AM	9/19/01 10:16 AM	1385	23.1	3.46	<MDL	<MDL	<MDL
48	PMST-6C	9/18/01 11:13 AM	9/19/01 10:22 AM	1389	23.1	3.47	<MDL	<MDL	<MDL
49	MEST-6	9/18/01 11:43 AM	9/19/01 10:45 AM	1382	23.0	3.45	<MDL	<MDL	<MDL
50	MEST-6C	9/18/01 11:45 AM	9/19/01 10:48 AM	1383	23.0	3.46	<MDL	<MDL	<MDL
51	SEST-6	9/18/01 12:19 AM	9/19/01 11:27 AM	2108	35.1	5.27	<MDL	<MDL	<MDL
52	SEST-6C*	9/18/01 12:25 AM	9/19/01 11:27 AM	2102	35.0	5.25	<MDL	<MDL	<MDL
53	SALT-7	9/22/01 6:48 AM	9/23/01 6:43 AM	1435	23.9	3.59	<MDL	<MDL	<MDL
54	CHUT-7	9/22/01 7:31 AM	9/23/01 7:39 AM	1448	24.1	3.62	<MDL	<MDL	<MDL
55	LJET-7	9/22/01 8:20 AM	9/23/01 8:40 AM	1460	24.3	3.65	<MDL	<MDL	<MDL
56	PMST-7	9/22/01 9:22 AM	9/23/01 9:33 AM	1451	24.2	3.63	<MDL	<MDL	<MDL
57	MEST-7	9/22/01 10:30 AM	9/23/01 10:23 AM	1433	23.9	3.58	<MDL	<MDL	<MDL
58	SEST-7	9/22/01 11:03 AM	9/23/01 11:05 AM	1442	24.0	3.60	<MDL	<MDL	<MDL
59	SALT-8	9/23/01 6:49 AM	9/24/01 6:47 AM	1438	24.0	3.59	<MDL	<MDL	<MDL
60	CHUT-8	9/23/01 7:49 AM	9/24/01 7:44 AM	1435	23.9	3.59	<MDL	<MDL	<MDL
61	LJET-8	9/23/01 8:46 AM	9/24/01 8:44 AM	1438	24.0	3.60	<MDL	<MDL	<MDL
62	PMST-8	9/23/01 9:39 AM	9/24/01 9:47 AM	1448	24.1	3.62	<MDL	<MDL	<MDL
63	MEST-8	9/23/01 10:29 AM	9/24/01 10:31 AM	1442	24.0	3.61	<MDL	<MDL	<MDL
64	SEST-8	9/23/01 11:12 AM	9/24/01 11:15 AM	1443	24.0	3.61	<MDL	<MDL	<MDL

MDL=0.3 ug/sample for MITC

DET=value below EQL of 1.5 ug/sample but >_ MDL

[(1)]pptv at 1 atm and 25 ^{0}C

Table 5 **MITC Ambient Monitoring Results for Monterey and Santa Cruz Counties 2001**

Log #	Sample ID	Start Date/Time	End Date/Time	Time (min)	Time (hours)	Volume (m^3)	MITC (ug/sample)	MITC (ug/m^3)	MITC [(1)](pptv)
65	SALT-9	9/24/01 6:53 AM	9/25/01 6:58 AM	1445	24.1	3.61	<MDL	<MDL	<MDL
66	CHUT-9	9/24/01 7:52 AM	9/25/01 7:53 AM	1441	24.0	3.60	<MDL	<MDL	<MDL
67	LJET-9	9/24/01 8:52 AM	9/25/01 9:11 AM	1459	24.3	3.65	<MDL	<MDL	<MDL
68	PMST-9	9/24/01 9:54 AM	9/25/01 10:03 AM	1449	24.1	3.62	<MDL	<MDL	<MDL
69	MEST-9	9/24/01 10:38 AM	9/25/01 10:55 AM	1457	24.3	3.64	<MDL	<MDL	<MDL
70	SEST-9	9/24/01 11:22 AM	9/25/01 11:29 AM	1447	24.1	3.62	<MDL	<MDL	<MDL
71	SALT-10	9/25/01 7:09 AM	9/26/01 6:41 AM	1412	23.5	3.53	<MDL	<MDL	<MDL
72	SALT-10FS	9/25/01 7:14 AM	9/26/01 6:49 AM	1415	23.6	3.54	6.63	1.9E+00	6.3E+02
73	SALT-10TS	9/25/01 6:12 AM	NA	NA	NA	NA	6.99	NA	NA
74	SALT-10TB	9/26/01 6:12 AM	NA	NA	NA	NA	<MDL	NA	NA
75	CHUT-10	9/25/01 7:59 AM	9/26/01 7:47 AM	1428	23.8	3.57	<MDL	<MDL	<MDL
76	LJET-10	9/25/01 9:17 AM	9/26/01 8:40 AM	1403	23.4	3.51	<MDL	<MDL	<MDL
77	PMST-10	9/25/01 10:11 AM	9/26/01 9:46 AM	1415	23.6	3.54	<MDL	<MDL	<MDL
78	MEST-10	9/25/01 11:02 AM	9/26/01 10:26 AM	1404	23.4	3.51	<MDL	<MDL	<MDL
79	SEST-10	9/25/01 11:37 AM	9/26/01 11:20 AM	1423	23.7	3.56	<MDL	<MDL	<MDL
80	SALT-11	9/26/01 6:59 AM	9/27/01 6:38 AM	1419	23.6	3.55	<MDL	<MDL	<MDL
81	SALT-11C	9/26/01 7:04 AM	9/27/01 6:45 AM	1421	23.7	3.55	<MDL	<MDL	<MDL
82	CHUT-11	9/26/01 8:01 AM	9/27/01 7:34 AM	1413	23.6	3.53	<MDL	<MDL	<MDL
83	CHUT-11C	9/26/01 7:58 AM	9/27/01 7:27 AM	1409	23.5	3.52	<MDL	<MDL	<MDL
84	LJET-11	9/26/01 8:45 AM	9/27/01 8:13 AM	1408	23.5	3.52	<MDL	<MDL	<MDL
85	LJET-11C	9/26/01 8:49 AM	9/27/01 8:18 AM	1409	23.5	3.52	<MDL	<MDL	<MDL
86	PMST-11	9/26/01 9:52 AM	9/27/01 9:02 AM	1390	23.2	3.47	<MDL	<MDL	<MDL
87	PMST-11C	9/26/01 9:56 AM	9/27/01 9:08 AM	1392	23.2	3.48	<MDL	<MDL	<MDL
88	MEST-11	9/26/01 10:38 AM	9/27/01 9:45 AM	1387	23.1	3.47	<MDL	<MDL	<MDL
89	MEST-11C	9/26/01 10:46 AM	9/27/01 9:53 AM	1387	23.1	3.47	<MDL	<MDL	<MDL
90	SEST-11	9/26/01 11:24 AM	9/27/01 10:32 AM	1388	23.1	3.47	<MDL	<MDL	<MDL
91	SEST-11C	9/26/01 11:28 AM	9/27/01 10:39 AM	1391	23.2	3.48	<MDL	<MDL	<MDL
92	SALT-12	9/27/01 6:50 AM	9/28/01 6:57 AM	1447	24.1	3.62	<MDL	<MDL	<MDL
93	CHUT-12	9/27/01 7:38 AM	9/28/01 7:31 AM	1433	23.9	3.58	<MDL	<MDL	<MDL
94	LJET-12	9/27/01 8:22 AM	9/28/01 8:10 AM	1428	23.8	3.57	<MDL	<MDL	<MDL
95	PMST-12	9/27/01 9:12 AM	9/28/01 8:50 AM	1418	23.6	3.55	<MDL	<MDL	<MDL
96	MEST-12	9/27/01 9:58 AM	9/28/01 9:23 AM	1405	23.4	3.51	<MDL	<MDL	<MDL

MDL=0.3 ug/sample for MITC

DET=value below EQL of 1.5 ug/sample but >_ MDL

[(1)]pptv at 1 atm and 25 ^{0}C

Table 5 **MITC Ambient Monitoring Results for Monterey and Santa Cruz Counties 2001**

Log #	Sample ID	Start Date/Time	End Date/Time	Time (min)	Time (hours)	Volume (m^3)	MITC (ug/sample)	MITC (ug/m^3)	MITC [(1)](pptv)
97	SEST-12	9/27/01 10:43 AM	9/28/01 9:49 AM	1386	23.1	3.47	<MDL	<MDL	<MDL
98	SALT-13	10/3/01 7:25 AM	10/4/01 7:27 AM	1442	24.0	3.60	<MDL	<MDL	<MDL
99	SALT-13TB	10/4/01 7:04 AM	NA	NA	NA	NA	<MDL	NA	NA
100	CHUT-13	10/3/01 8:17 AM	10/4/01 8:29 AM	1452	24.2	3.63	<MDL	<MDL	<MDL
101	LJET-13	10/3/01 9:07 AM	10/4/01 9:37 AM	1470	24.5	3.67	<MDL	<MDL	<MDL
102	PMST-13	10/3/01 10:01 AM	10/4/01 10:38 AM	1477	24.6	3.69	<MDL	<MDL	<MDL
103	MEST-13	10/3/01 11:01 AM	10/4/01 11:40 AM	1479	24.7	3.70	<MDL	<MDL	<MDL
104	SEST-13	10/3/01 11:47 AM	10/4/01 12:38 PM	1491	24.8	3.73	<MDL	<MDL	<MDL
105	SALT-14	10/4/01 7:35 AM	10/5/01 6:40 AM	1385	23.1	3.46	<MDL	<MDL	<MDL
106	SALT-14C	10/4/01 7:41 AM	10/5/01 6:58 AM	1397	23.3	3.49	<MDL	<MDL	<MDL
107	CHUT-14	10/4/01 8:43 AM	10/5/01 7:50 AM	1387	23.1	3.47	<MDL	<MDL	<MDL
108	CHUT-14C	10/4/01 8:50 AM	10/5/01 7:59 AM	1389	23.2	3.47	<MDL	<MDL	<MDL
109	LJET-14	10/4/01 9:42 AM	10/5/01 8:59 AM	1397	23.3	3.49	<MDL	<MDL	<MDL
110	LJET-14C	10/4/01 9:46 AM	10/5/01 9:10 AM	1404	23.4	3.51	<MDL	<MDL	<MDL
111	PMST-14	10/4/01 10:45 AM	10/5/01 10:07 AM	1402	23.4	3.51	<MDL	<MDL	<MDL
112	PMST-14C	10/4/01 10:51 AM	10/5/01 10:17 AM	1406	23.4	3.52	<MDL	<MDL	<MDL
113	MEST-14	10/4/01 11:49 AM	10/5/01 11:17 AM	1408	23.5	3.52	<MDL	<MDL	<MDL
114	MEST-14C	10/4/01 11:56 AM	10/5/01 11:33 AM	1417	23.6	3.54	<MDL	<MDL	<MDL
115	SEST-14	10/4/01 12:45 PM	10/5/01 12:34 PM	1429	23.8	3.57	<MDL	<MDL	<MDL
116	SEST-14C	10/4/01 12:51 PM	10/5/01 12:44 PM	1433	23.9	3.58	<MDL	<MDL	<MDL
117	SALT-15	10/5/01 7:03 AM	10/6/01 7:46 AM	1483	24.7	3.71	<MDL	<MDL	<MDL
118	CHUT-15	10/5/01 8:06 AM	10/6/01 7:49 AM	1423	23.7	3.56	<MDL	<MDL	<MDL
119	LJET-15	10/5/01 9:14 AM	10/6/01 8:41 AM	1407	23.4	3.52	<MDL	<MDL	<MDL
120	PMST-15	10/5/01 10:24 AM	10/6/01 9:46 AM	1402	23.4	3.51	<MDL	<MDL	<MDL
121	MEST-15	10/5/01 11:42 AM	10/6/01 10:46 AM	1384	23.1	3.46	<MDL	<MDL	<MDL
122	SEST-15	10/5/01 12:57 PM	10/6/01 11:59 AM	1382	23.0	3.45	<MDL	<MDL	<MDL
123	SALT-16	10/6/01 6:52 AM	10/7/01 6:44 AM	1432	23.9	3.58	<MDL	<MDL	<MDL
124	CHUT-16	10/6/01 7:55 AM	10/7/01 7:39 AM	1424	23.7	3.56	<MDL	<MDL	<MDL
125	LJET-16	10/6/01 8:47 AM	10/7/01 8:30 AM	1423	23.7	3.56	<MDL	<MDL	<MDL
126	PMST-16	10/6/01 9:52 AM	10/7/01 9:34 AM	1422	23.7	3.55	<MDL	<MDL	<MDL
127	MEST-16	10/6/01 10:54 AM	10/7/01 10:22 AM	1408	23.5	3.52	<MDL	<MDL	<MDL
128	SEST-16	10/6/01 12:06 PM	10/7/01 11:30 AM	1404	23.4	3.51	<MDL	<MDL	<MDL

MDL=0.3 ug/sample for MITC

DET=value below EQL of 1.5 ug/sample but >_ MDL

[(1)]pptv at 1 atm and 25 ^{0}C

Table 5 **MITC Ambient Monitoring Results for Monterey and Santa Cruz Counties 2001**

Log #	Sample ID	Start Date/Time	End Date/Time	Time (min)	Time (hours)	Volume (m^3)	MITC (ug/sample)	MITC (ug/m^3)	MITC [(1)](pptv)
129	SALT-17	10/11/01 7:03 AM	10/12/01 6:48 AM	1425	23.8	3.56	<MDL	<MDL	<MDL
130	SALT-17TS	10/12/01 6:50 AM	NA	NA	NA	NA	6.81	NA	NA
131	SALT-17TB	10/12/01 6:52 AM	NA	NA	NA	NA	<MDL	NA	NA
132	SALT-17FS	10/11/01 7:09 AM	10/12/01 7:07 AM	1438	24.0	3.59	6.81	1.9E+00	6.3E+02
133	CHUT-17	10/11/01 8:05 AM	10/12/01 8:15 AM	1450	24.2	3.63	<MDL	<MDL	<MDL
134	LJET-17	10/11/01 9:05 AM	10/12/01 9:19 AM	1454	24.2	3.64	<MDL	<MDL	<MDL
135	PMST-17	10/11/01 10:00 AM	10/12/01 10:26 AM	1466	24.4	3.67	<MDL	<MDL	<MDL
136	MEST-17	10/11/01 10:53 AM	10/12/01 11:09 AM	1456	24.3	3.64	<MDL	<MDL	<MDL
137	SEST-17	10/11/01 11:26 AM	10/12/01 11:51 AM	1465	24.4	3.66	<MDL	<MDL	<MDL
138	SALT-18	10/12/01 7:18 AM	10/13/01 6:42 AM	1404	23.4	3.51	<MDL	<MDL	<MDL
139	SALT-18C	10/12/01 7:25 AM	10/13/01 6:59 AM	1414	23.6	3.53	<MDL	<MDL	<MDL
140	CHUT-18	10/12/01 8:25 AM	10/13/01 8:03 AM	1418	23.6	3.55	<MDL	<MDL	<MDL
141	CHUT-18C	10/12/01 8:33 AM	10/13/01 8:14 AM	1421	23.7	3.55	<MDL	<MDL	<MDL
142	LJET-18	10/12/01 9:31 AM	10/13/01 9:12 AM	1421	23.7	3.55	<MDL	<MDL	<MDL
143	LJET-18C	10/12/01 9:36 AM	10/13/01 9:23 AM	1427	23.8	3.57	<MDL	<MDL	<MDL
144	PMST-18	10/12/01 10:31 AM	10/13/01 6:42 AM	1211	20.2	3.03	<MDL	<MDL	<MDL
145	PMST-18C	10/12/01 10:36 AM	10/13/01 10:30 AM	1434	23.9	3.59	<MDL	<MDL	<MDL
146	MEST-18	10/12/01 11:17 AM	10/13/01 6:42 AM	1165	19.4	2.91	<MDL	<MDL	<MDL
147	MEST-18C	10/12/01 11:21 AM	10/13/01 11:28 AM	1447	24.1	3.62	<MDL	<MDL	<MDL
148	SEST-18	10/12/01 12:11 PM	10/13/01 12:06 PM	1435	23.9	3.59	1.56	4.3E-01	1.5E+02
149	SEST-18C	10/12/01 12:17 PM	10/13/01 12:18 PM	1441	24.0	3.60	DET	DET	DET
150	SALT-19	10/13/01 7:03 AM	10/14/01 7:01 AM	1438	24.0	3.60	<MDL	<MDL	<MDL
151	CHUT-19	10/13/01 8:18 AM	10/14/01 7:58 AM	1420	23.7	3.55	<MDL	<MDL	<MDL
152	LJET-19	10/13/01 9:26 AM	10/14/01 8:53 AM	1407	23.4	3.52	<MDL	<MDL	<MDL
153	PMST-19	10/13/01 10:32 AM	10/14/01 9:46 AM	1394	23.2	3.49	<MDL	<MDL	<MDL
154	MEST-19	10/13/01 10:13 AM	10/14/01 10:49 AM	1476	24.6	3.69	<MDL	<MDL	<MDL
155	SEST-19	10/13/01 12:20 AM	10/14/01 11:33 AM	2113	35.2	5.28	DET	DET	DET
156	SALT-20	10/14/01 7:04 AM	10/15/01 6:10 AM	1386	23.1	3.47	<MDL	<MDL	<MDL
157	CHUT-20	10/14/01 8:00 AM	10/15/01 7:00 AM	1380	23.0	3.45	<MDL	<MDL	<MDL
158	LJET-20	10/14/01 8:55 AM	10/15/01 7:55 AM	1380	23.0	3.45	<MDL	<MDL	<MDL
159	PMST-20	10/14/01 9:49 AM	10/15/01 8:49 AM	1380	23.0	3.45	<MDL	<MDL	<MDL
160	MEST-20	10/14/01 10:51 AM	10/15/01 9:51 AM	1380	23.0	3.45	<MDL	<MDL	<MDL

MDL=0.3 ug/sample for MITC

DET=value below EQL of 1.5 ug/sample but >_ MDL

[(1)]pptv at 1 atm and 25 ^{0}C

Table 5 **MITC Ambient Monitoring Results for Monterey and Santa Cruz Counties 2001**

Log #	Sample ID	Start Date/Time	End Date/Time	Time (min)	Time (hours)	Volume (m^3)	MITC		
							(ug/sample)	(ug/m^3)	[1](pptv)
161	SEST-20	10/14/01 11:35 AM	10/15/01 10:35 AM	1380	23.0	3.45	DET	DET	DET
162	SALT-21	10/19/01 6:42 AM	10/20/01 6:26 AM	1424	23.7	3.56	<MDL	<MDL	<MDL
163	SALT-21C	10/19/01 6:51 AM	10/20/01 6:36 AM	1425	23.8	3.56	<MDL	<MDL	<MDL
164	CHUT-21	10/19/01 7:40 AM	10/20/01 7:31 AM	1431	23.9	INVALID	INVALID	INVALID	INVALID
165	CHUT-21C	10/19/01 7:47 AM	10/20/01 7:42 AM	1435	23.9	3.59	<MDL	<MDL	<MDL
166	LJET-21	10/19/01 8:35 AM	10/20/01 8:42 AM	1447	24.1	3.62	<MDL	<MDL	<MDL
167	LJET-21C	10/19/01 8:42 AM	10/20/01 9:04 AM	1462	24.4	3.65	<MDL	<MDL	<MDL
168	PMST-21	10/19/01 9:28 AM	10/20/01 9:51 AM	1463	24.4	3.66	<MDL	<MDL	<MDL
169	PMST-21C	10/19/01 9:35 AM	10/20/01 10:05 AM	1470	24.5	3.68	<MDL	<MDL	<MDL
170	MEST-21	10/19/01 10:09 AM	10/20/01 10:43 AM	1474	24.6	3.68	<MDL	<MDL	<MDL
171	MEST-21C	10/19/01 10:17 AM	10/20/01 10:54 AM	1477	24.6	3.69	<MDL	<MDL	<MDL
172	SEST-21	10/19/01 10:52 AM	10/20/01 11:41 AM	1489	24.8	3.72	<MDL	<MDL	<MDL
173	SEST-21C	10/19/01 11:00 AM	10/20/01 11:51 AM	1491	24.8	3.73	<MDL	<MDL	<MDL
174	SALT-22	10/20/01 6:30 AM	10/21/01 6:22 AM	1432	23.9	3.58	<MDL	<MDL	<MDL
175	CHUT-22	10/20/01 8:04 AM	10/21/01 7:42 AM	1418	23.6	INVALID	INVALID	INVALID	INVALID
176	LJET-22	10/20/01 8:59 AM	10/21/01 8:54 AM	1435	23.9	3.59	<MDL	<MDL	<MDL
177	PMST-22	10/20/01 10:00 AM	10/21/01 9:52 AM	1432	23.9	3.58	<MDL	<MDL	<MDL
178	MEST-22	10/20/01 11:09 AM	10/21/01 10:43 AM	1414	23.6	3.53	<MDL	<MDL	<MDL
179	SEST-22	10/20/01 11:59 AM	10/21/01 11:33 AM	1414	23.6	3.53	<MDL	<MDL	<MDL
180	SALT-23	10/21/01 6:32 AM	10/22/01 6:00 AM	1408	23.5	3.52	<MDL	<MDL	<MDL
181	CHUT-23	10/21/01 7:55 AM	10/22/01 7:22 AM	1407	23.4	3.52	<MDL	<MDL	<MDL
182	LJET-23	10/21/01 9:02 AM	10/22/01 8:29 AM	1407	23.5	3.52	<MDL	<MDL	<MDL
183	PMST-23	10/21/01 10:01 AM	10/22/01 9:26 AM	1405	23.4	3.51	<MDL	<MDL	<MDL
184	MEST-23	10/21/01 10:53 AM	10/22/01 10:12 AM	1399	23.3	3.50	<MDL	<MDL	<MDL
185	SEST-23	10/21/01 11:42 AM	10/22/01 10:58 AM	1396	23.3	3.49	<MDL	<MDL	<MDL
186	SALT-24TB	10/22/01 6:08 AM	NA	NA	NA	NA	<MDL	NA	NA
187	SALT-24	10/22/01 6:16 AM	10/23/01 6:28 AM	1452	24.2	3.63	<MDL	<MDL	<MDL
188	CHUT-24	10/22/01 7:31 AM	10/23/01 7:19 AM	1428	23.8	3.57	<MDL	<MDL	<MDL
189	LJET-24	10/22/01 8:39 AM	10/23/01 8:05 AM	1406	23.4	3.51	<MDL	<MDL	<MDL
190	PMST-24	10/22/01 9:35 AM	10/23/01 8:48 AM	1393	23.2	3.48	<MDL	<MDL	<MDL
191	MEST-24	10/22/01 10:21 AM	10/23/01 9:24 AM	1383	23.1	3.46	<MDL	<MDL	<MDL
192	SEST-24	10/22/01 11:08 AM	10/23/01 10:09 AM	1381	23.0	3.45	<MDL	<MDL	<MDL

MDL=0.3 ug/sample for MITC

DET=value below EQL of 1.5 ug/sample but >_ MDL

[1]pptv at 1 atm and 25 ^{0}C

Table 5 **MITC Ambient Monitoring Results for Monterey and Santa Cruz Counties 2001**

Log #	Sample ID	Start Date/Time	End Date/Time	Time (min)	Time (hours)	Volume (m^3)	MITC (ug/sample)	MITC (ug/m^3)	MITC [(1)](pptv)
193	SALT-25	10/27/01 7:21 AM	10/28/01 7:08 AM	1427	23.8	3.57	<MDL	<MDL	<MDL
194	SALT-25C	10/27/01 7:28 AM	10/28/01 7:16 AM	1428	23.8	3.57	<MDL	<MDL	<MDL
195	CHUT-25	10/27/01 8:13 AM	10/28/01 8:12 AM	1439	24.0	3.60	<MDL	<MDL	<MDL
196	CHUT-25C	10/27/01 8:23 AM	10/28/01 8:25 AM	1442	24.0	3.60	<MDL	<MDL	<MDL
197	LJET-25	10/27/01 9:03 AM	10/28/01 9:07 AM	1444	24.1	3.61	<MDL	<MDL	<MDL
198	LJET-25C	10/27/01 9:10 AM	10/28/01 9:19 AM	1449	24.1	3.62	<MDL	<MDL	<MDL
199	PMST-25	10/27/01 10:01 AM	10/28/01 10:13 AM	1452	24.2	3.63	<MDL	<MDL	<MDL
200	PMST-25C	10/27/01 10:09 AM	10/28/01 10:06 AM	1437	23.9	3.59	<MDL	<MDL	<MDL
201	MEST-25	10/27/01 10:43 AM	10/28/01 11:03 AM	1460	24.3	3.65	<MDL	<MDL	<MDL
202	MEST-25C	10/27/01 10:49 AM	10/28/01 11:16 AM	1467	24.5	3.67	<MDL	<MDL	<MDL
203	SEST-25	10/27/01 11:31 AM	10/28/01 11:49 AM	1458	24.3	3.64	<MDL	<MDL	<MDL
204	SEST-25C	10/27/01 11:41 AM	10/28/01 12:01 AM	740	12.3	1.85	<MDL	<MDL	<MDL
205	SALT-26TB	10/28/01 7:00 AM	NA	NA	NA	NA	<MDL	NA	NA
206	SALT-26TS	10/28/01 7:00 AM	NA	NA	NA	NA	6.69	NA	NA
207	SALT-26FS	10/28/01 7:26 AM	10/29/01 7:15 AM	1429	23.8	3.57	6.06	1.7E+00	5.7E+02
208	SALT-26	10/28/01 7:31 AM	10/29/01 7:24 AM	1433	23.9	3.58	<MDL	<MDL	<MDL
209	CHUT-26	10/28/01 8:18 AM	10/29/01 8:22 AM	1444	24.1	3.61	<MDL	<MDL	<MDL
210	LJET-26	10/28/01 9:13 AM	10/29/01 9:23 AM	1450	24.2	3.63	<MDL	<MDL	<MDL
211	PMST-26	10/28/01 10:19 AM	10/29/01 10:30 AM	1451	24.2	3.63	<MDL	<MDL	<MDL
212	MEST-26	10/28/01 11:09 AM	10/29/01 11:16 AM	1447	24.1	3.62	<MDL	<MDL	<MDL
213	SEST-26	10/28/01 11:55 AM	10/29/01 12:01 PM	1446	24.1	3.61	<MDL	<MDL	<MDL
214	SALT-27	10/29/01 7:31 AM	10/30/01 7:05 AM	1414	23.6	3.53	<MDL	<MDL	<MDL
215	CHUT-27	10/29/01 8:30 AM	10/30/01 8:06 AM	1416	23.6	3.54	<MDL	<MDL	<MDL
216	LJET-27	10/29/01 9:31 AM	10/30/01 9:08 AM	1417	23.6	3.54	<MDL	<MDL	<MDL
217	PMST-27**	10/29/01 10:35 AM	10/30/01 10:20 AM	1425	23.8	INVALID	INVALID	INVALID	INVALID
218	MEST-27	10/29/01 11:23 AM	10/30/01 11:14 AM	1431	23.8	3.58	<MDL	<MDL	<MDL
219	SEST-27	10/29/01 12:08 PM	10/30/01 12:02 AM	714	11.9	1.78	<MDL	<MDL	<MDL
220	SALT-28	10/30/01 7:09 AM	10/31/01 7:07 AM	1438	24.0	3.59	<MDL	<MDL	<MDL
221	CHUT-28	10/30/01 8:10 AM	10/31/01 7:52 AM	1422	23.7	3.55	<MDL	<MDL	<MDL
222	LJET-28	10/30/01 9:13 AM	10/31/01 8:48 AM	1415	23.6	3.54	<MDL	<MDL	<MDL
223	PMST-28	10/30/01 10:24 AM	10/31/01 9:41 AM	1397	23.3	3.49	<MDL	<MDL	<MDL
224	MEST-28	10/30/01 11:17 AM	10/31/01 10:33 AM	1396	23.3	3.49	<MDL	<MDL	<MDL

MDL=0.3 ug/sample for MITC

DET=value below EQL of 1.5 ug/sample but >_ MDL

[(1)]pptv at 1 atm and 25 ^{0}C

Table 5 **MITC Ambient Monitoring Results for Monterey and Santa Cruz Counties 2001**

Log #	Sample ID	Start Date/Time	End Date/Time	Time (min)	Time (hours)	Volume (m^3)	MITC		
							(ug/sample)	(ug/m^3)	[1](pptv)
225	SEST-28	10/30/01 12:10 PM	10/31/01 11:15 AM	1385	23.1	3.46	<MDL	<MDL	<MDL
226	SALT-29	11/4/01 6:45 AM	11/5/01 6:43 AM	1438	24.0	3.60	<MDL	<MDL	<MDL
227	SALT-29C	11/4/01 6:45 AM	11/5/01 6:57 AM	1452	24.2	3.63	<MDL	<MDL	<MDL
228	CHUT-29	11/4/01 7:50 AM	11/5/01 8:03 AM	1453	24.2	3.63	<MDL	<MDL	<MDL
229	CHUT-29C	11/4/01 7:50 AM	11/5/01 8:19 AM	1469	24.5	3.67	<MDL	<MDL	<MDL
230	LJET-29	11/4/01 8:48 AM	11/5/01 9:02 AM	1454	24.2	3.63	<MDL	<MDL	<MDL
231	LJET-29C	11/4/01 8:48 AM	11/5/01 9:11 AM	1463	24.4	3.66	<MDL	<MDL	<MDL
232	PMST-29	11/4/01 9:44 AM	11/5/01 10:42 AM	1498	25.0	3.75	<MDL	<MDL	<MDL
233	PMST-29C	11/4/01 9:44 AM	11/5/01 10:33 AM	1489	24.8	3.72	<MDL	<MDL	<MDL
234	MEST-29	11/4/01 10:57 AM	11/5/01 11:54 AM	1497	24.9	3.74	<MDL	<MDL	<MDL
235	MEST-29C	11/4/01 10:57 AM	11/5/01 11:43 AM	1486	24.8	3.71	<MDL	<MDL	<MDL
236	SEST-29**	11/4/01 11:41 AM	11/5/01 12:37 AM	776	12.9	1.94	<MDL	<MDL	<MDL
237	SEST-29C**	11/4/01 11:41 AM	11/5/01 12:40 PM	1499	25.0	3.75	<MDL	<MDL	<MDL
238	SALT-30	11/5/01 7:07 AM	11/6/01 6:33 AM	1406	23.4	3.52	<MDL	<MDL	<MDL
239	SALT-30TB	11/5/01 7:15 AM	NA	NA	NA	NA	<MDL	NA	NA
240	CHUT-30	11/5/01 8:28 AM	11/6/01 7:41 AM	1393	23.2	3.48	<MDL	<MDL	<MDL
241	LJET-30	11/5/01 9:30 AM	11/6/01 8:41 AM	1391	23.2	3.48	<MDL	<MDL	<MDL
242	PMST-30	11/5/01 10:55 AM	11/6/01 9:58 AM	1383	23.1	3.46	<MDL	<MDL	<MDL
243	MEST-30	11/5/01 12:01 PM	11/6/01 11:20 AM	1399	23.3	3.50	<MDL	<MDL	<MDL
244	SEST-30	11/5/01 1:00 PM	11/6/01 12:18 PM	1398	23.3	3.49	<MDL	<MDL	<MDL
245	SALT-31	11/6/01 6:41 AM	11/7/01 6:19 AM	1418	23.6	3.55	<MDL	<MDL	<MDL
246	CHUT-31	11/6/01 7:51 AM	11/7/01 7:21 AM	1410	23.5	3.53	<MDL	<MDL	<MDL
247	LJET-31	11/6/01 8:48 AM	11/7/01 8:38 AM	1430	23.8	3.57	<MDL	<MDL	<MDL
248	PMST-31	11/6/01 10:02 AM	11/7/01 9:45 AM	1423	23.7	3.56	<MDL	<MDL	<MDL
249	MEST-31	11/6/01 11:35 AM	11/7/01 11:01 AM	1406	23.4	3.51	<MDL	<MDL	<MDL
250	SEST-31	11/6/01 12:26 PM	11/7/01 11:55 AM	1409	23.5	3.52	<MDL	<MDL	<MDL
251	SALT-32	11/7/01 6:26 AM	11/8/01 6:12 AM	1426	23.8	3.56	<MDL	<MDL	<MDL
252	CHUT-32	11/7/01 7:27 AM	11/8/01 7:00 AM	1413	23.5	3.53	<MDL	<MDL	<MDL
253	LJET-32	11/7/01 8:44 AM	11/8/01 7:48 AM	1384	23.1	3.46	<MDL	<MDL	<MDL
254	PMST-32	11/7/01 9:52 AM	11/8/01 9:54 AM	1442	24.0	3.60	<MDL	<MDL	<MDL
255	MEST-32	11/7/01 11:07 AM	11/8/01 10:09 AM	1382	23.0	3.46	<MDL	<MDL	<MDL
256	SEST-32	11/7/01 12:01 PM	11/8/01 11:03 AM	1382	23.0	3.45	<MDL	<MDL	<MDL

MDL=0.3 ug/sample for MITC

DET=value below EQL of 1.5 ug/sample but $\geq$ MDL

[1]pptv at 1 atm and 25^0C

Table 6 Summary of 2001 Cartridge Results for MITC in Monterey and Santa Cruz Counties (ug/m3)

Sample Start Date	CHUT	LJET	MEST	PMST	SALT	SEST
9/8/2001	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
9/9/2001	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
9/10/2001	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
9/11/2001	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
9/17/2001	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
9/18/2001	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
9/22/2001	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
9/23/2001	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
9/24/2001	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
9/25/2001	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
9/26/2001	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
9/27/2001	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
10/3/2001	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
10/4/2001	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
10/5/2001	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
10/6/2001	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
10/11/2001	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
10/12/2001	<MDL	<MDL	<MDL	<MDL	<MDL	0.43
10/13/2001	<MDL	<MDL	<MDL	<MDL	<MDL	DET
10/14/2001	<MDL	<MDL	<MDL	<MDL	<MDL	DET
10/20/2001	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
10/21/2001	INVALID	<MDL	<MDL	<MDL	<MDL	<MDL
10/22/2001	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
10/23/2001	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
10/27/2001	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
10/28/2001	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
10/29/2001	<MDL	<MDL	<MDL	INVALID	<MDL	<MDL
10/30/2001	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
11/4/2001	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
11/5/2001	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
11/6/2001	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
11/7/2001	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL

Maximum	**<MDL**	**<MDL**	**<MDL**	**<MDL**	**<MDL**	**4.3E-01**
Average	**0.042**	**0.042**	**0.042**	**0.042**	**0.042**	**6.7E-02**
# Samples	**31**	**32**	**32**	**31**	**32**	**32**
# > EQL	**0**	**0**	**0**	**0**	**0**	**1**
# DET	**0**	**0**	**0**	**0**	**0**	**2**
# < MDL	**31**	**32**	**32**	**31**	**32**	**29**

Only the higher value of each collocated pair was listed in the table.

<MDL results were factored in as MDL/2= 0.042 ug/m^3

DET results were factored in as (EQL+MDL)/2= 0.25 ug/m^3

Table 7 **2001 Cartridge Collocated Results for MITC in Monterey and Santa Cruz Counties**

Sample ID	MITC		
	ug/m3	Average	Rel. Diff.
SALT-2	<MDL		
SALT-2C	<MDL	<MDL	<MDL
CHUT-2	<MDL		
CHUT-2C	<MDL	<MDL	<MDL
LJET-2	<MDL		
LJET-2C	<MDL	<MDL	<MDL
PMST-2	<MDL		
PMST-2C	<MDL	<MDL	<MDL
MEST-2	<MDL		
MEST-2C	<MDL	<MDL	<MDL
SEST-2	<MDL		
SEST-2C	<MDL	<MDL	<MDL
SALT-6	<MDL		
SALT-6C	<MDL	<MDL	<MDL
CHUT-6	<MDL		
CHUT-6C	<MDL	<MDL	<MDL
LJET-6	<MDL		
LJET-6C	<MDL	<MDL	<MDL
PMST-6	<MDL		
PMST-6C	<MDL	<MDL	<MDL
MEST-6	<MDL		
MEST-6C	<MDL	<MDL	<MDL
SEST-6	<MDL		
SEST-6C*	<MDL	<MDL	<MDL
SALT-11	<MDL		
SALT-11C	<MDL	<MDL	<MDL
CHUT-11	<MDL		
CHUT-11C	<MDL	<MDL	<MDL
LJET-11	<MDL		
LJET-11C	<MDL	<MDL	<MDL
PMST-11	<MDL		
PMST-11C	<MDL	<MDL	<MDL
MEST-11	<MDL		
MEST-11C	<MDL	<MDL	<MDL
SEST-11	<MDL		
SEST-11C	<MDL	<MDL	<MDL
SALT-14	<MDL		
SALT-14C	<MDL	<MDL	<MDL
CHUT-14	<MDL		
CHUT-14C	<MDL	<MDL	<MDL
LJET-14	<MDL		
LJET-14C	<MDL	<MDL	<MDL
PMST-14	<MDL		
PMST-14C	<MDL	<MDL	<MDL
MEST-14	<MDL		
MEST-14C	<MDL	<MDL	<MDL
SEST-14	<MDL		
SEST-14C	<MDL	<MDL	<MDL

Sample ID	MITC		
	ug/m3	Average	Rel. Diff.
SALT-18	<MDL		
SALT-18C	<MDL	<MDL	<MDL
CHUT-18	<MDL		
CHUT-18C	<MDL	<MDL	<MDL
LJET-18	<MDL		
LJET-18C	<MDL	<MDL	<MDL
PMST-18	<MDL		
PMST-18C	<MDL	<MDL	<MDL
MEST-18	<MDL		
MEST-18C	<MDL	<MDL	<MDL
SEST-18	0.43		
SEST-18C	DET	NA	NA
SALT-21	<MDL		
SALT-21C	<MDL	<MDL	<MDL
CHUT-21	INVALID		
CHUT-21C	<MDL	NA	NA
LJET-21	<MDL		
LJET-21C	<MDL	<MDL	<MDL
PMST-21	<MDL		
PMST-21C	<MDL	<MDL	<MDL
MEST-21	<MDL		
MEST-21C	<MDL	<MDL	<MDL
SEST-21	<MDL		
SEST-21C	<MDL	<MDL	<MDL
SALT-25	<MDL		
SALT-25C	<MDL	<MDL	<MDL
CHUT-25	<MDL		
CHUT-25C	<MDL	<MDL	<MDL
LJET-25	<MDL		
LJET-25C	<MDL	<MDL	<MDL
PMST-25	<MDL		
PMST-25C	<MDL	<MDL	<MDL
MEST-25	<MDL		
MEST-25C	<MDL	<MDL	<MDL
SEST-25	<MDL		
SEST-25C	<MDL	<MDL	<MDL
SALT-29	<MDL		
SALT-29C	<MDL	<MDL	<MDL
CHUT-29	<MDL		
CHUT-29C	<MDL	<MDL	<MDL
LJET-29	<MDL		
LJET-29C	<MDL	<MDL	<MDL
PMST-29	<MDL		
PMST-29C	<MDL	<MDL	<MDL
MEST-29	<MDL		
MEST-29C	<MDL	<MDL	<MDL
SEST-29**	<MDL		
SEST-29C**	<MDL	<MDL	<MDL
		Average =	**<MDL**

* = sample loss on extraction

** = cartridge wet

Table 8 **MIC Ambient Monitoring Cartridge Results for Monterey and Santa Cruz Counties 2001**

Log #	Sample ID	Start Date/Time	End Date/Time	Time (min)	Time (hour)	Volume (m3)	MIC		
							(ug/sample)	(ug/m3)	[1](pptv)
1	SALM-1F	9/8/01 6:47 AM	9/9/01 6:42 AM	1435	23.9	0.11	<MDL	<MDL	<MDL
2	SALM-1B	9/8/01 6:47 AM	9/9/01 6:42 AM	1435	23.9	0.11	NA	NA	NA
3	SALM-1FSF	9/8/01 6:56 AM	9/9/01 6:56 AM	1440	24.0	0.11	3.24E-01	3.00E+00	1.29E+00
4	SALM-1FSB	9/8/01 6:56 AM	9/9/01 6:56 AM	1440	24.0	0.11	NA	NA	NA
5	CHUM-1F	9/8/01 7:32 AM	9/9/01 7:36 AM	1444	24.1	0.11	<MDL	<MDL	<MDL
6	CHUM-1B	9/8/01 7:32 AM	9/9/01 7:36 AM	1444	24.1	0.11	NA	NA	NA
7	LJEM-1F	9/8/01 8:13 AM	9/9/01 8:21 AM	1448	24.1	0.11	<MDL	<MDL	<MDL
8	LJEM-1B	9/8/01 8:13 AM	9/9/01 8:21 AM	1448	24.1	0.11	NA	NA	NA
9	PMSM-1F	9/8/01 9:03 AM	9/9/01 9:11 AM	1448	24.1	0.11	<MDL	<MDL	<MDL
10	PMSM-1B	9/8/01 9:03 AM	9/9/01 9:11 AM	1448	24.1	0.11	NA	NA	NA
11	MESM-1F	9/8/01 9:43 AM	9/9/01 9:54 AM	1451	24.2	0.11	<MDL	<MDL	<MDL
12	MESM-1B	9/8/01 9:43 AM	9/9/01 9:54 AM	1451	24.2	0.11	NA	NA	NA
13	SESM-1F	9/8/01 10:13 AM	9/9/01 10:30 AM	1457	24.3	0.11	<MDL	<MDL	<MDL
14	SESM-1B	9/8/01 10:13 AM	9/9/01 10:30 AM	1457	24.3	0.11	NA	NA	NA
15	SALM-1TB	9/9/01 12:00 AM	NA	NA	NA	NA	<MDL	<MDL	<MDL
16	SALM-2F	9/9/01 6:52 AM	9/10/01 6:34 AM	1422	23.7	0.11	<MDL	<MDL	<MDL
17	SALM-2B	9/9/01 6:52 AM	9/10/01 6:34 AM	1422	23.7	0.11	NA	NA	NA
18	SALM-2FC	9/9/01 7:06 AM	9/10/01 6:48 AM	1422	23.7	0.11	<MDL	<MDL	<MDL
19	SALM-2BC	9/9/01 7:06 AM	9/10/01 6:48 AM	1422	23.7	0.11	NA	NA	NA
20	CHUM-2F	9/9/01 7:45 AM	9/10/01 7:48 AM	1443	24.0	0.11	<MDL	<MDL	<MDL
21	CHUM-2B	9/9/01 7:45 AM	9/10/01 7:48 AM	1443	24.0	0.11	NA	NA	NA
22	CHUM-2FC	9/9/01 7:52 AM	9/10/01 7:34 AM	1422	23.7	0.11	<MDL	<MDL	<MDL
23	CHUM-2BC	9/9/01 7:52 AM	9/10/01 7:34 AM	1422	23.7	0.11	NA	NA	NA
24	LJEM-2F	9/9/01 8:32 AM	9/10/01 8:22 AM	1430	23.8	0.11	<MDL	<MDL	<MDL
25	LJEM-2B	9/9/01 8:32 AM	9/10/01 8:22 AM	1430	23.8	0.11	NA	NA	NA
26	LJEM-2CF	9/9/01 8:38 AM	9/10/01 8:40 AM	1442	24.0	INVALID	INVALID	INVALID	INVALID
27	LJEM-2CB	9/9/01 8:38 AM	9/10/01 8:40 AM	1442	24.0	INVALID	INVALID	INVALID	INVALID
28	PMSM-2F	9/9/01 9:23 AM	9/10/01 9:23 AM	1440	24.0	0.11	<MDL	<MDL	<MDL
29	PMSM-2B	9/9/01 9:23 AM	9/10/01 9:23 AM	1440	24.0	0.11	NA	NA	NA
30	PMSM-2FC	9/9/01 9:34 AM	9/10/01 9:39 AM	1445	24.1	0.11	<MDL	<MDL	<MDL
31	PMSM-2BC	9/9/01 9:34 AM	9/10/01 9:39 AM	1445	24.1	0.11	NA	NA	NA

MDL=0.009 ug/sample for MIC

DET=Value was below EQL of 0.045 ug/sample but ≥MDL.

[1]pptv at 1atm and 25^{0}C

*= sample loss on extraction

** = cartridge wet

INVALID = invalid due to unstable flow rate

Table 8 **MIC Ambient Monitoring Cartridge Results for Monterey and Santa Cruz Counties 2001**

Log #	Sample ID	Start Date/Time	End Date/Time	Time (min)	Time (hour)	Volume (m3)	MIC		
							(ug/sample)	(ug/m3)	[1](pptv)
32	MESM-2F	9/9/01 10:04 AM	9/10/01 10:06 AM	1442	24.0	0.11	<MDL	<MDL	<MDL
33	MESM-2B	9/9/01 10:04 AM	9/10/01 10:06 AM	1442	24.0	0.11	NA	NA	NA
34	MESM-2FC	9/9/01 10:11 AM	9/10/01 10:18 AM	1447	24.1	0.11	<MDL	<MDL	<MDL
35	MESM-2BC	9/9/01 10:11 AM	9/10/01 10:18 AM	1447	24.1	0.10	NA	NA	NA
36	SESM-2F	9/9/01 10:42 AM	9/10/01 10:43 AM	1441	24.0	0.10	<MDL	<MDL	<MDL
37	SESM-2B	9/9/01 10:42 AM	9/10/01 10:43 AM	1441	24.0	0.11	NA	NA	NA
38	SESM-2FC	9/9/01 10:47 AM	9/10/01 10:58 AM	1451	24.2	0.11	<MDL	<MDL	<MDL
39	SESM-2BC	9/9/01 10:47 AM	9/10/01 10:58 AM	1451	24.2	0.11	NA	NA	NA
40	SESM-2TS	9/9/01 10:53 AM	NA	NA	NA	NA	<MDL	<MDL	<MDL
41	SALM-3F	9/10/01 6:45 AM	9/11/01 6:36 AM	1431	23.9	0.11	<MDL	<MDL	<MDL
42	SALM-3B	9/10/01 6:45 AM	9/11/01 6:36 AM	1431	23.9	0.11	NA	NA	NA
43	CHUM-3F	9/10/01 7:39 AM	9/11/01 7:26 AM	1427	23.8	0.11	<MDL	<MDL	<MDL
44	CHUM-3B	9/10/01 7:39 AM	9/11/01 7:26 AM	1427	23.8	0.11	NA	NA	NA
45	LJEM-3F	9/10/01 8:28 AM	9/11/01 8:20 AM	1432	23.9	0.11	<MDL	<MDL	<MDL
46	LJEM-3B	9/10/01 8:28 AM	9/11/01 8:20 AM	1432	23.9	0.11	NA	NA	NA
47	PMSM-3F	9/10/01 9:27 AM	9/11/01 9:23 AM	1436	23.9	0.11	<MDL	<MDL	<MDL
48	PMSM-3B	9/10/01 9:27 AM	9/11/01 9:23 AM	1436	23.9	0.11	NA	NA	NA
49	MESM-3F	9/10/01 10:15 AM	9/11/01 10:14 AM	1439	24.0	0.11	<MDL	<MDL	<MDL
50	MESM-3B	9/10/01 10:15 AM	9/11/01 10:14 AM	1439	24.0	0.11	NA	NA	NA
51	SESM-3F	9/10/01 10:47 AM	9/11/01 10:53 AM	1446	24.1	0.11	<MDL	<MDL	<MDL
52	SESM-3B	9/10/01 10:47 AM	9/11/01 10:53 AM	1446	24.1	0.11	NA	NA	NA
53	SALM-4F	9/11/01 6:46 AM	9/12/01 6:40 AM	1434	23.9	0.11	<MDL	<MDL	<MDL
54	SALM-4B	9/11/01 6:46 AM	9/12/01 6:40 AM	1434	23.9	0.11	NA	NA	NA
55	CHUM-4F	9/11/01 6:36 AM	9/12/01 7:30 AM	1494	24.9	0.12	<MDL	<MDL	<MDL
56	CHUM-4B	9/11/01 6:36 AM	9/12/01 7:30 AM	1494	24.9	0.12	NA	NA	NA
57	LJEM-4F	9/11/01 8:31 AM	9/12/01 8:27 AM	1436	23.9	0.11	<MDL	<MDL	<MDL
58	LJEM43B	9/11/01 8:31 AM	9/12/01 8:27 AM	1436	23.9	0.11	NA	NA	NA
59	PMSM-4F	9/11/01 9:32 AM	9/12/01 9:15 AM	1423	23.7	0.11	<MDL	<MDL	<MDL
60	PMSM-4B	9/11/01 9:32 AM	9/12/01 9:15 AM	1423	23.7	0.11	NA	NA	NA
61	MESM-4F**	9/11/01 10:22 AM	9/12/01 9:52 AM	1410	23.5	0.11	<MDL	<MDL	<MDL
62	MESM-4B	9/11/01 10:22 AM	9/12/01 9:52 AM	1410	23.5	0.11	NA	NA	NA

MDL=0.009 ug/sample for MIC

DET=Value was below EQL of 0.045 ug/sample but ≥MDL.

[1]pptv at 1atm and 25^{0}C

* = sample loss on extraction

** = cartridge wet

INVALID = invalid due to unstable flow rate

Table 8 **MIC Ambient Monitoring Cartridge Results for Monterey and Santa Cruz Counties 2001**

Log #	Sample ID	Start Date/Time	End Date/Time	Time (min)	Time (hour)	Volume (m3)	MIC		
							(ug/sample)	(ug/m3)	[1](pptv)
63	SESM-4F	9/11/01 11:07 AM	9/12/01 10:34 AM	1407	23.5	0.11	<MDL	<MDL	<MDL
64	SESM-4B	9/11/01 11:07 AM	9/12/01 10:34 AM	1407	23.5	0.11	NA	NA	NA
65	SALM-5FB	9/17/01 6:40 AM	9/18/01 6:22 AM	1422	23.7	0.11	<MDL	<MDL	<MDL
66	CHUM-5FB	9/17/01 7:22 AM	9/18/01 7:08 AM	1426	23.8	0.11	<MDL	<MDL	<MDL
67	LJEM-5FB	9/17/01 8:07 AM	9/18/01 10:14 AM	1567	26.1	0.12	<MDL	<MDL	<MDL
68	PMSM-5FB	9/17/01 8:55 AM	9/18/01 11:01 AM	1566	26.1	0.12	<MDL	<MDL	<MDL
69	MESM-5FB	9/17/01 9:21 AM	9/18/01 11:33 AM	1572	26.2	0.12	<MDL	<MDL	<MDL
70	SESM-5FB	9/17/01 9:42 AM	9/18/01 12:08 PM	1586	26.4	0.12	<MDL	<MDL	<MDL
71	SALM-5TB	9/18/01 6:33 AM	NA	NA	NA	NA	<MDL	<MDL	<MDL
72	SALM-6FB	9/18/01 6:33 AM	9/19/01 7:20 AM	1487	24.8	0.12	<MDL	<MDL	<MDL
73	SALM-6CFB	9/18/01 6:39 AM	9/19/01 7:28 AM	1489	24.8	0.11	<MDL	<MDL	<MDL
74	CHUM-6FB	9/18/01 7:21 AM	9/19/01 8:00 AM	1479	24.7	0.11	<MDL	<MDL	<MDL
75	CHUM-6CFB	9/18/01 7:26 AM	9/19/01 8:05 AM	1479	24.7	0.11	<MDL	<MDL	<MDL
76	LJEM-6FB	9/18/01 10:26 AM	9/19/01 9:27 AM	1381	23.0	0.10	<MDL	<MDL	<MDL
77	LJEM-6CFB	9/18/01 10:30 AM	9/19/01 9:33 AM	1383	23.1	0.10	<MDL	<MDL	<MDL
78	PMSM-6FB	9/18/01 11:12 AM	9/19/01 10:12 AM	1380	23.0	0.10	<MDL	<MDL	<MDL
79	PMSM-6CFB	9/18/01 11:15 AM	9/19/01 10:15 AM	1380	23.0	0.10	<MDL	<MDL	<MDL
80	MESM-6FB	9/18/01 11:44 AM	9/19/01 10:44 AM	1380	23.0	0.10	<MDL	<MDL	<MDL
81	MESM-6CFB	9/18/01 11:46 AM	9/19/01 10:48 AM	1382	23.0	0.10	<MDL	<MDL	<MDL
82	SESM-6FB	9/18/01 12:22 PM	9/19/01 11:27 AM	1385	23.1	0.10	<MDL	<MDL	<MDL
83	SESM-6CFB	9/18/01 12:25 PM	9/19/01 11:27 AM	1382	23.0	0.10	<MDL	<MDL	<MDL
84	SALM-7FB	9/22/01 6:47 AM	9/23/01 6:36 AM	1429	23.8	0.11	Det	Det	Det
85	CHUM-7FB	9/22/01 7:32 AM	9/23/01 7:33 AM	1441	24.0	0.11	<MDL	<MDL	<MDL
86	LJEM-7FB	9/22/01 8:21 AM	9/23/01 8:34 AM	1453	24.2	0.11	<MDL	<MDL	<MDL
87	PMSM-7FB	9/22/01 9:19 AM	9/23/01 9:26 AM	1447	24.1	0.11	<MDL	<MDL	<MDL
88	MESM-7FB	9/22/01 10:27 AM	9/23/01 10:17 AM	1430	23.8	0.11	<MDL	<MDL	<MDL
89	SESM-7FB	9/22/01 10:59 AM	9/23/01 11:00 AM	1441	24.0	0.11	<MDL	<MDL	<MDL
90	SALM-8FB	9/23/01 6:47 AM	9/24/01 6:41 AM	1434	23.9	0.11	<MDL	<MDL	<MDL
91	CHUM-8FB	9/23/01 7:44 AM	9/24/01 7:37 AM	1433	23.9	0.12	<MDL	<MDL	<MDL
92	LJEM-8FB	9/23/01 8:43 AM	9/24/01 8:37 AM	1434	23.9	0.12	<MDL	<MDL	<MDL
93	PMSM-8FB	9/23/01 9:36 AM	9/24/01 9:41 AM	1445	24.1	0.11	<MDL	<MDL	<MDL

MDL=0.009 ug/sample for MIC

DET=Value was below EQL of 0.045 ug/sample but ≥MDL.

[1]pptv at 1atm and 25^{0}C

* = sample loss on extraction

** = cartridge wet

INVALID = invalid due to unstable flow rate

Table 8 **MIC Ambient Monitoring Cartridge Results for Monterey and Santa Cruz Counties 2001**

Log #	Sample ID	Start Date/Time	End Date/Time	Time (min)	Time (hour)	Volume (m3)	MIC		
							(ug/sample)	(ug/m3)	[1](pptv)
94	MESM-8FB	9/23/01 10:26 AM	9/24/01 10:25 AM	1439	24.0	0.11	<MDL	<MDL	<MDL
95	SESM-8FB	9/23/01 11:09 AM	9/24/01 11:09 AM	1440	24.0	0.11	<MDL	<MDL	<MDL
96	SALM-9FB	9/24/01 6:49 AM	9/25/01 6:48 AM	1439	24.0	0.11	<MDL	<MDL	<MDL
97	CHUM-9FB	9/24/01 7:47 AM	9/25/01 7:46 AM	1439	24.0	0.11	<MDL	<MDL	<MDL
98	LJEM-9FB	9/24/01 8:49 AM	9/25/01 9:02 AM	1453	24.2	0.11	<MDL	<MDL	<MDL
99	PMSM-9FB	9/24/01 9:51 AM	9/25/01 9:54 AM	1443	24.0	0.11	<MDL	<MDL	<MDL
100	MESM-9FB	9/24/01 10:35 AM	9/25/01 10:47 AM	1452	24.2	0.11	<MDL	<MDL	<MDL
101	SESM-9FB**	9/24/01 11:19 AM	9/25/01 11:22 AM	1443	24.0	0.11	<MDL	<MDL	<MDL
102	SALM-10FB	9/25/01 7:02 AM	9/26/01 6:35 AM	1413	23.5	0.11	<MDL	<MDL	<MDL
103	SALM-10FSFB	9/25/01 7:12 AM	9/26/01 6:45 AM	1413	23.5	0.11	3.18E-01	3.00E+00	1.29E+00
104	SALM-10TS	9/25/01 7:12 AM	NA	NA	NA	NA	<MDL	<MDL	<MDL
105	SALM-10TB	9/25/01 7:12 AM	NA	NA	NA	NA	<MDL	<MDL	<MDL
106	CHUM-10FB	9/25/01 7:57 AM	9/26/01 7:40 AM	1423	23.7	0.11	<MDL	<MDL	<MDL
107	LJEM-10FB	9/25/01 9:14 AM	9/26/01 8:32 AM	1398	23.3	0.12	<MDL	<MDL	<MDL
108	PMSM-10FB	9/25/01 10:08 AM	9/26/01 9:38 AM	1410	23.5	0.12	<MDL	<MDL	<MDL
109	MESM-10FB	9/25/01 10:59 AM	9/26/01 10:20 AM	1401	23.3	0.11	<MDL	<MDL	<MDL
110	SESM-10FB	9/25/01 11:34 AM	9/26/01 11:12 AM	1418	23.6	0.11	<MDL	<MDL	<MDL
111	SALM-11FB	9/26/01 6:54 AM	9/27/01 6:29 AM	1415	23.6	0.11	<MDL	<MDL	<MDL
112	SALM-11FBC	9/26/01 7:01 AM	9/27/01 6:41 AM	1420	23.7	0.11	<MDL	<MDL	<MDL
113	CHUM-11FB	9/26/01 7:59 AM	9/27/01 7:30 AM	1411	23.5	0.11	<MDL	<MDL	<MDL
114	CHUM-11FBC	9/26/01 7:54 AM	9/27/01 7:18 AM	1404	23.4	0.11	<MDL	<MDL	<MDL
115	LJEM-11FB	9/26/01 8:42 AM	9/27/01 8:07 AM	1405	23.4	0.11	<MDL	<MDL	<MDL
116	LJEM-11FBC	9/26/01 8:47 AM	9/27/01 8:15 AM	1408	23.5	0.11	<MDL	<MDL	<MDL
117	PMSM-11FB	9/26/01 9:49 AM	9/27/01 8:56 AM	1387	23.1	0.10	<MDL	<MDL	<MDL
118	PMSM-11FBC	9/26/01 9:54 AM	9/27/01 9:05 AM	1391	23.2	0.10	<MDL	<MDL	<MDL
119	MESM-11FB	9/26/01 10:30 AM	9/27/01 9:39 AM	1389	23.2	0.10	<MDL	<MDL	<MDL
120	MESM-11FBC	9/26/01 10:43 AM	9/27/01 9:49 AM	1386	23.1	0.10	<MDL	<MDL	<MDL
121	SESM-11FB	9/26/01 11:22 AM	9/27/01 10:26 AM	1384	23.1	0.10	<MDL	<MDL	<MDL
122	SESM-11FBC	9/26/01 11:26 AM	9/27/01 10:36 AM	1390	23.2	0.10	<MDL	<MDL	<MDL
123	SALM-12FB	9/27/01 6:48 AM	9/28/01 6:52 AM	1444	24.1	0.11	<MDL	<MDL	<MDL
124	CHUM-12FB	9/27/01 7:36 AM	9/28/01 7:26 AM	1430	23.8	0.11	<MDL	<MDL	<MDL

MDL=0.009 ug/sample for MIC

DET=Value was below EQL of 0.045 ug/sample but ≥MDL.

[1]pptv at 1atm and 25^{0}C

* = sample loss on extraction

** = cartridge wet

INVALID = invalid due to unstable flow rate

Table 8 **MIC Ambient Monitoring Cartridge Results for Monterey and Santa Cruz Counties 2001**

Log #	Sample ID	Start Date/Time	End Date/Time	Time (min)	Time (hour)	Volume (m3)	MIC		
							(ug/sample)	(ug/m3)	[1](pptv)
125	LJEM-12FB	9/27/01 8:20 AM	9/28/01 8:05 AM	1425	23.8	0.11	<MDL	<MDL	<MDL
126	PMSM-12FB	9/27/01 9:10 AM	9/28/01 8:44 AM	1414	23.6	0.11	<MDL	<MDL	<MDL
127	MESM-12FB	9/27/01 9:55 AM	9/28/01 9:18 AM	1403	23.4	0.11	<MDL	<MDL	<MDL
128	SESM-12FB	9/27/01 10:41 AM	9/28/01 9:46 AM	1385	23.1	0.10	<MDL	<MDL	<MDL
129	SALM-13FB	10/3/01 7:22 AM	10/4/01 7:21 AM	1439	24.0	0.11	<MDL	<MDL	<MDL
130	SALM-13TB	10/3/01 7:00 AM	NA	NA	NA	NA	<MDL	<MDL	<MDL
131	CHUM-13FB	10/3/01 8:13 AM	10/4/01 8:26 AM	1453	24.2	0.11	<MDL	<MDL	<MDL
132	LJEM-13FB	10/3/01 9:04 AM	10/4/01 9:31 AM	1467	24.4	0.11	<MDL	<MDL	<MDL
133	PMSM-13FB	10/3/01 9:58 AM	10/4/01 10:31 AM	1473	24.6	0.11	<MDL	<MDL	<MDL
134	MESM-13FB	10/3/01 10:55 AM	10/4/01 11:33 AM	1478	24.6	0.11	<MDL	<MDL	<MDL
135	SESM-13FB	10/3/01 11:43 AM	10/4/01 12:29 PM	1486	24.8	0.11	<MDL	<MDL	<MDL
136	SALM-14FB	10/4/01 7:33 AM	10/5/01 7:34 AM	1441	24.0	0.11	<MDL	<MDL	<MDL
137	SALM-14FBC	10/4/01 7:38 AM	10/5/01 6:47 AM	1389	23.1	0.10	<MDL	<MDL	<MDL
138	CHUM-14FB	10/4/01 8:39 AM	10/5/01 7:41 AM	1382	23.0	0.10	<MDL	<MDL	<MDL
139	CHUM-14FBC	10/4/01 8:46 AM	10/5/01 7:53 AM	1387	23.1	0.10	<MDL	<MDL	<MDL
140	LJEM-14FB	10/4/01 9:40 AM	10/5/01 8:51 AM	1391	23.2	0.10	<MDL	<MDL	<MDL
141	LJEM-14FBC	10/4/01 9:44 AM	10/5/01 9:02 AM	1398	23.3	0.10	<MDL	<MDL	<MDL
142	PMSM-14FB	10/4/01 10:42 AM	10/5/01 10:00 AM	1398	23.3	0.10	<MDL	<MDL	<MDL
143	PMSM-14FBC	10/4/01 10:48 AM	10/5/01 10:10 AM	1402	23.4	0.11	<MDL	<MDL	<MDL
144	MESM-14FB	10/4/01 11:43 AM	10/5/01 11:07 AM	1404	23.4	0.11	<MDL	<MDL	<MDL
145	MESM-14FBC	10/4/01 11:52 AM	10/5/01 11:25 AM	1413	23.6	0.11	<MDL	<MDL	<MDL
146	SESM-14FB	10/4/01 12:41 PM	10/5/01 12:26 PM	1425	23.8	0.11	<MDL	<MDL	<MDL
147	SESM-14FBC	10/4/01 12:48 PM	10/5/01 12:38 PM	1430	23.8	0.11	<MDL	<MDL	<MDL
148	SALM-15FB	10/5/01 7:00 AM	10/6/01 6:38 AM	1418	23.6	0.11	<MDL	<MDL	<MDL
149	CHUM-15FB	10/5/01 8:03 AM	10/6/01 7:40 AM	1417	23.6	0.11	<MDL	<MDL	<MDL
150	LJEM-15FB	10/5/01 9:13 AM	10/6/01 8:33 AM	1400	23.3	0.10	<MDL	<MDL	<MDL
151	PMSM-15FB	10/5/01 10:21 AM	10/6/01 9:38 AM	1397	23.3	0.10	<MDL	<MDL	<MDL
152	MESM-15FB	10/5/01 11:38 AM	10/6/01 10:40 AM	1382	23.0	0.10	<MDL	<MDL	<MDL
153	SESM-15FB	10/5/01 12:49 PM	10/6/01 11:51 AM	1382	23.0	0.10	<MDL	<MDL	<MDL
154	SALM-16FB	10/6/01 6:49 AM	10/7/01 6:37 AM	1428	23.8	0.11	<MDL	<MDL	<MDL
155	CHUM-16FB	10/6/01 7:51 AM	10/7/01 7:30 AM	1419	23.7	0.11	<MDL	<MDL	<MDL

MDL=0.009 ug/sample for MIC

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[1]pptv at 1atm and 25^{0}C

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Table 8 **MIC Ambient Monitoring Cartridge Results for Monterey and Santa Cruz Counties 2001**

Log #	Sample ID	Start Date/Time	End Date/Time	Time (min)	Time (hour)	Volume (m3)	MIC		
							(ug/sample)	(ug/m3)	[1](pptv)
156	LJEM-16FB	10/6/01 8:44 AM	10/7/01 8:22 AM	1418	23.6	0.11	<MDL	<MDL	<MDL
157	PMSM-16FB	10/6/01 9:49 AM	10/7/01 9:27 AM	1418	23.6	0.11	<MDL	<MDL	<MDL
158	MESM-16FB	10/6/01 10:49 AM	10/7/01 10:15 AM	1406	23.4	0.11	<MDL	<MDL	<MDL
159	SESM-16FB	10/6/01 12:01 PM	10/7/01 9:02 AM	1261	21.0	0.09	<MDL	<MDL	<MDL
160	SALM-17FB	10/11/01 7:05 AM	10/12/01 6:46 AM	1421	23.7	0.11	<MDL	<MDL	<MDL
161	SALM-17TS	10/12/01 6:55 AM	NA	NA	NA	NA	<MDL	<MDL	<MDL
162	SALM-17TB	10/11/01 7:05 AM	NA	NA	NA	NA	<MDL	<MDL	<MDL
163	SALM-17FS	10/11/01 7:12 AM	10/12/01 7:04 AM	1432	23.9	0.11	3.22E-01	3.00E+00	1.29E+00
164	CHUM-17FB	10/11/01 8:07 AM	10/12/01 8:12 AM	1445	24.1	0.11	<MDL	<MDL	<MDL
165	LJEM-17FB	10/11/01 9:07 AM	10/12/01 9:18 AM	1451	24.2	0.11	<MDL	<MDL	<MDL
166	PMSM-17FB	10/11/01 10:02 AM	10/12/01 10:24 AM	1462	24.4	0.11	<MDL	<MDL	<MDL
167	MESM-17FB	10/11/01 10:56 AM	10/12/01 11:07 AM	1451	24.2	0.11	<MDL	<MDL	<MDL
168	SESM-17FB	10/11/01 11:27 AM	10/12/01 11:48 AM	1461	24.4	0.11	<MDL	<MDL	<MDL
169	SALM-18FB	10/12/01 7:19 AM	10/13/01 6:41 AM	1402	23.4	0.11	<MDL	<MDL	<MDL
170	SALM-18FBC	10/12/01 7:27 AM	10/13/01 6:54 AM	1407	23.4	0.11	<MDL	<MDL	<MDL
171	CHUM-18FB	10/12/01 8:26 AM	10/13/01 7:56 AM	1410	23.5	0.11	<MDL	<MDL	<MDL
172	CHUM-18FBC	10/12/01 8:34 AM	10/13/01 8:06 AM	1412	23.5	0.11	<MDL	<MDL	<MDL
173	LJEM-18FB	10/12/01 9:33 AM	10/13/01 9:04 AM	1411	23.5	0.11	<MDL	<MDL	<MDL
174	LJEM-18FBC	10/12/01 9:38 AM	10/13/01 9:16 AM	1418	23.6	0.11	<MDL	<MDL	<MDL
175	PMSM-18FB	10/12/01 10:32 AM	10/13/01 10:12 AM	1420	23.7	0.11	<MDL	<MDL	<MDL
176	PMSM-18FBC	10/12/01 10:37 AM	10/13/01 10:24 AM	1427	23.8	0.11	<MDL	<MDL	<MDL
177	MESM-18FB	10/12/01 11:18 AM	10/13/01 11:11 AM	1433	23.9	0.11	<MDL	<MDL	<MDL
178	MESM-18FBC	10/12/01 11:23 AM	10/13/01 11:20 AM	1437	23.9	0.11	<MDL	<MDL	<MDL
179	SESM-18FB	10/12/01 12:13 PM	10/13/01 12:00 PM	1427	23.8	0.11	<MDL	<MDL	<MDL
180	SESM-18FBC	10/12/01 12:18 PM	10/13/01 12:10 PM	1432	23.9	0.11	<MDL	<MDL	<MDL
181	SALM-19FB	10/13/01 7:06 AM	10/14/01 6:55 AM	1429	23.8	0.11	<MDL	<MDL	<MDL
182	CHUM-19FB	10/13/01 8:20 AM	10/14/01 7:50 AM	1410	23.5	0.11	<MDL	<MDL	<MDL
183	LJEM-19FB	10/13/01 9:27 AM	10/14/01 8:47 AM	1400	23.3	0.10	<MDL	<MDL	<MDL
184	PMSM-19FB	10/13/01 10:35 AM	10/14/01 9:40 AM	1385	23.1	0.10	<MDL	<MDL	<MDL
185	MESM-19FB	10/13/01 11:32 AM	10/14/01 10:43 AM	1391	23.2	0.10	<MDL	<MDL	<MDL
186	SESM-19FB	10/13/01 12:22 PM	10/14/01 11:27 AM	1385	23.1	0.10	<MDL	<MDL	<MDL

MDL=0.009 ug/sample for MIC

DET=Value was below EQL of 0.045 ug/sample but ≥MDL.

[1]pptv at 1atm and 25^{0}C

* = sample loss on extraction

** = cartridge wet

INVALID = invalid due to unstable flow rate

Table 8 **MIC Ambient Monitoring Cartridge Results for Monterey and Santa Cruz Counties 2001**

Log #	Sample ID	Start Date/Time	End Date/Time	Time (min)	Time (hour)	Volume (m3)	MIC		
							(ug/sample)	(ug/m3)	[1](pptv)
187	SALM-20FB	10/14/01 7:04 AM	10/15/01 6:05 AM	1381	23.0	0.10	<MDL	<MDL	<MDL
188	CHUM-20FB	10/14/01 8:02 AM	10/15/01 7:02 AM	1380	23.0	0.10	<MDL	<MDL	<MDL
189	LJEM-20FB	10/14/01 8:56 AM	10/15/01 7:56 AM	1380	23.0	0.10	Det	Det	Det
190	PMSM-20FB	10/14/01 9:50 AM	10/15/01 8:50 AM	1380	23.0	0.10	<MDL	<MDL	<MDL
191	MESM-20FB	10/14/01 10:52 AM	10/15/01 9:52 AM	1380	23.0	0.10	Det	Det	Det
192	SESM-20FB	10/14/01 11:36 AM	10/15/01 10:36 AM	1380	23.0	0.10	Det	Det	Det
193	SALM-21FB	10/19/01 6:42 AM	10/20/01 6:20 AM	1418	23.6	0.11	<MDL	<MDL	<MDL
194	SALM-21FBC	10/19/01 6:51 AM	10/20/01 6:36 AM	1425	23.8	0.11	<MDL	<MDL	<MDL
195	CHUM-21FB	10/19/01 7:40 AM	10/20/01 7:31 AM	1431	23.9	0.11	<MDL	<MDL	<MDL
196	CHUM-21FBC	10/19/01 7:47 AM	10/20/01 7:42 AM	1435	23.9	0.11	<MDL	<MDL	<MDL
197	LJEM-21FB	10/19/01 8:35 AM	10/20/01 8:48 AM	1453	24.2	0.11	<MDL	<MDL	<MDL
198	LJEM-21FBC	10/19/01 8:42 AM	10/20/01 9:04 AM	1462	24.4	0.11	<MDL	<MDL	<MDL
199	PMSM-21FB	10/19/01 9:28 AM	10/20/01 9:51 AM	1463	24.4	0.11	<MDL	<MDL	<MDL
200	PMSM-21FBC	10/19/01 9:35 AM	10/20/01 10:05 AM	1470	24.5	0.11	<MDL	<MDL	<MDL
201	MESM-21FB	10/19/01 10:09 AM	10/20/01 10:43 AM	1474	24.6	0.12	<MDL	<MDL	<MDL
202	MESM-21FBC	10/19/01 10:17 AM	10/20/01 10:54 AM	1477	24.6	0.12	<MDL	<MDL	<MDL
203	SESM-21FB	10/19/01 10:52 AM	10/20/01 11:41 AM	1489	24.8	0.11	<MDL	<MDL	<MDL
204	SESM-21FBC	10/19/01 11:00 AM	10/20/01 11:51 AM	1491	24.8	0.11	<MDL	<MDL	<MDL
205	SALM-22FB	10/20/01 6:30 AM	10/21/01 6:22 AM	1432	23.9	0.11	<MDL	<MDL	<MDL
206	CHUM-22FB	10/20/01 8:04 AM	10/21/01 7:42 AM	1418	23.6	0.11	<MDL	<MDL	<MDL
207	LJEM-22FB	10/20/01 8:59 AM	10/21/01 8:54 AM	1435	23.9	0.11	<MDL	<MDL	<MDL
208	PMSM-22FB	10/20/01 10:00 AM	10/21/01 9:52 AM	1432	23.9	0.11	<MDL	<MDL	<MDL
209	MESM-22FB	10/20/01 11:09 AM	10/21/01 10:43 AM	1414	23.6	0.11	<MDL	<MDL	<MDL
210	SESM-22FB	10/20/01 11:59 AM	10/21/01 11:33 AM	1414	23.6	0.11	<MDL	<MDL	<MDL
211	SALM-23FB	10/21/01 6:32 AM	10/22/01 6:00 AM	1408	23.5	0.11	<MDL	<MDL	<MDL
212	CHUM-23FB	10/21/01 7:55 AM	10/22/01 7:22 AM	1407	23.4	0.11	<MDL	<MDL	<MDL
213	LJEM-23FB	10/21/01 9:02 AM	10/22/01 8:29 AM	1407	23.5	0.11	<MDL	<MDL	<MDL
214	PMSM-23FB	10/21/01 10:01 AM	10/22/01 9:26 AM	1405	23.4	0.11	<MDL	<MDL	<MDL
215	MESM-23FB	10/21/01 10:53 AM	10/22/01 10:12 AM	1399	23.3	0.12	<MDL	<MDL	<MDL
216	SESM-23FB	10/21/01 11:42 AM	10/22/01 10:58 AM	1396	23.3	0.12	<MDL	<MDL	<MDL
217	SALM-24TB	10/22/01 6:08 AM	NA	NA	NA	NA	<MDL	<MDL	<MDL

MDL=0.009 ug/sample for MIC

DET=Value was below EQL of 0.045 ug/sample but ≥MDL.

[1]pptv at 1atm and 25^{0}C

* = sample loss on extraction

** = cartridge wet

INVALID = invalid due to unstable flow rate

Table 8 **MIC Ambient Monitoring Cartridge Results for Monterey and Santa Cruz Counties 2001**

Log #	Sample ID	Start Date/Time	End Date/Time	Time (min)	Time (hour)	Volume (m3)	MIC		
							(ug/sample)	(ug/m3)	[1](pptv)
218	SALM-24FB	10/22/01 6:16 AM	10/23/01 6:16 AM	1440	24.0	0.11	<MDL	<MDL	<MDL
219	CHUM-24FB	10/22/01 7:31 AM	10/23/01 7:19 AM	1428	23.8	0.11	<MDL	<MDL	<MDL
220	LJEM-24FB	10/22/01 8:39 AM	10/23/01 8:05 AM	1406	23.4	0.11	<MDL	<MDL	<MDL
221	PMSM-24FB	10/22/01 9:35 AM	10/23/01 8:08 AM	1353	22.5	0.10	<MDL	<MDL	<MDL
222	MESM-24FB	10/22/01 10:21 AM	10/23/01 9:24 AM	1383	23.1	0.10	<MDL	<MDL	<MDL
223	SESM-24FB	10/22/01 11:08 AM	10/23/01 10:09 AM	1381	23.0	0.10	<MDL	<MDL	<MDL
224	SALM-25FB	10/27/01 7:17 AM	10/28/01 7:00 AM	1423	23.7	0.11	<MDL	<MDL	<MDL
225	SALM-25FBC	10/27/01 7:25 AM	10/28/01 7:11 AM	1426	23.8	0.11	<MDL	<MDL	<MDL
226	CHUM-25FB	10/27/01 8:09 AM	10/28/01 8:07 AM	1438	24.0	0.11	<MDL	<MDL	<MDL
227	CHUM-25FBC	10/27/01 8:18 AM	10/28/01 8:20 AM	1442	24.0	0.11	<MDL	<MDL	<MDL
228	LJEM-25FB	10/27/01 9:01 AM	10/28/01 9:02 AM	1441	24.0	0.11	<MDL	<MDL	<MDL
229	LJEM-25FBC	10/27/01 9:08 AM	10/28/01 9:14 AM	1446	24.1	0.11	<MDL	<MDL	<MDL
230	PMSM-25FB	10/27/01 9:57 AM	10/28/01 10:08 AM	1451	24.2	0.11	<MDL	<MDL	<MDL
231	PMSM-25FBC	10/27/01 10:06 AM	10/28/01 10:21 AM	1455	24.3	0.11	<MDL	<MDL	<MDL
232	MESM-25FB	10/27/01 10:40 AM	10/28/01 10:58 AM	1458	24.3	0.11	<MDL	<MDL	<MDL
233	MESM-25FBC	10/27/01 10:47 AM	10/28/01 11:11 AM	1464	24.4	0.11	<MDL	<MDL	<MDL
234	SESM-25FB	10/27/01 11:27 AM	10/28/01 11:43 AM	1456	24.3	0.11	<MDL	<MDL	<MDL
235	SESM-25FBC	10/27/01 11:36 AM	10/28/01 11:56 AM	1460	24.3	0.11	<MDL	<MDL	<MDL
236	SALM-26TB	10/29/01 7:17 AM	NA	NA	NA	NA	<MDL	<MDL	<MDL
237	SALM-26TS	10/30/01 7:17 AM	NA	NA	NA	NA	<MDL	<MDL	<MDL
238	SALM-26FS	10/28/01 7:22 AM	10/29/01 7:09 AM	1427	23.8	0.11	3.21E-01	3.00E+00	1.29E+00
239	SALM-26FB	10/28/01 7:28 AM	10/29/01 7:18 AM	1430	23.8	0.11	<MDL	<MDL	<MDL
240	CHUM-26FB	10/28/01 8:15 AM	10/29/01 8:17 AM	1442	24.0	0.11	<MDL	<MDL	<MDL
241	LJEM-26FB	10/28/01 9:10 AM	10/29/01 9:19 AM	1449	24.1	0.11	<MDL	<MDL	<MDL
242	PMSM-26FB	10/28/01 10:16 AM	10/29/01 10:25 AM	1449	24.2	0.11	<MDL	<MDL	<MDL
243	MESM-26FB	10/28/01 11:06 AM	10/29/01 11:11 AM	1445	24.1	0.12	<MDL	<MDL	<MDL
244	SESM-26FB	10/28/01 11:52 AM	10/29/01 11:57 AM	1445	24.1	0.12	<MDL	<MDL	<MDL
245	SALM-27FB	10/29/01 7:28 AM	10/30/01 7:05 AM	1417	23.6	0.11	<MDL	<MDL	<MDL
246	CHUM-27FB	10/29/01 8:27 AM	10/30/01 8:06 AM	1419	23.7	0.11	<MDL	<MDL	<MDL
247	LJEM-27FB	10/29/01 9:29 AM	10/30/01 9:08 AM	1419	23.7	0.11	<MDL	<MDL	<MDL
248	PMSM-27FB	10/29/01 10:33 AM	10/30/01 10:20 AM	1427	23.8	0.11	<MDL	<MDL	<MDL

MDL=0.009 ug/sample for MIC

DET=Value was below EQL of 0.045 ug/sample but ≥MDL.

[1]pptv at 1atm and 25^{0}C

* = sample loss on extraction

** = cartridge wet

INVALID = invalid due to unstable flow rate

Table 8 **MIC Ambient Monitoring Cartridge Results for Monterey and Santa Cruz Counties 2001**

Log #	Sample ID	Start Date/Time	End Date/Time	Time (min)	Time (hour)	Volume (m3)	MIC		
							(ug/sample)	(ug/m3)	[1](pptv)
249	MESM-27FB	10/29/01 11:19 AM	10/30/01 11:14 AM	1435	23.9	0.11	<MDL	<MDL	<MDL
250	SESM-27FB	10/29/01 12:04 AM	10/30/01 12:02 AM	1438	24.0	0.11	<MDL	<MDL	<MDL
251	SALM-28FB	10/30/01 7:09 AM	10/31/01 7:07 AM	1438	24.0	0.11	<MDL	<MDL	<MDL
252	CHUM-28FB	10/30/01 8:10 AM	10/31/01 7:52 AM	1422	23.7	0.11	<MDL	<MDL	<MDL
253	LJEM-28FB	10/30/01 9:13 AM	10/31/01 8:48 AM	1415	23.6	0.11	<MDL	<MDL	<MDL
254	PMSM-28FB	10/30/01 10:24 AM	10/31/01 9:41 AM	1397	23.3	0.10	<MDL	<MDL	<MDL
255	MESM-28FB	10/30/01 11:17 AM	10/31/01 10:33 AM	1396	23.3	0.10	<MDL	<MDL	<MDL
256	SESM-28FB	10/30/01 12:10 PM	10/31/01 11:15 AM	1385	23.1	0.10	<MDL	<MDL	<MDL
257	SALM-29FB	11/4/01 6:45 AM	11/5/01 6:41 AM	1436	23.9	0.11	<MDL	<MDL	<MDL
258	SALM-29FBC	11/4/01 6:45 AM	11/5/01 6:54 AM	1449	24.1	0.11	<MDL	<MDL	<MDL
259	CHUM-29FB	11/4/01 7:50 AM	11/5/01 8:00 AM	1450	24.2	0.11	<MDL	<MDL	<MDL
260	CHUM-29FBC	11/4/01 7:50 AM	11/5/01 8:11 AM	1461	24.3	0.11	<MDL	<MDL	<MDL
261	LJEM-29FB	11/4/01 8:48 AM	11/5/01 9:19 AM	1471	24.5	0.11	<MDL	<MDL	<MDL
262	LJEM-29FBC	11/4/01 8:48 AM	11/5/01 9:08 AM	1460	24.3	0.11	<MDL	<MDL	<MDL
263	PMSM-29FB	11/4/01 9:44 AM	11/5/01 10:40 AM	1496	24.9	0.11	<MDL	<MDL	<MDL
264	PMSM-29FBC	11/4/01 9:44 AM	11/5/01 10:29 AM	1485	24.8	0.11	<MDL	<MDL	<MDL
265	MESM-29FB	11/4/01 10:57 AM	11/5/01 11:50 AM	1493	24.9	0.11	<MDL	<MDL	<MDL
266	MESM-29FBC	11/4/01 10:57 AM	11/5/01 11:38 AM	1481	24.7	0.11	<MDL	<MDL	<MDL
267	SESM-29FB	11/4/01 11:41 AM	11/5/01 12:34 PM	1493	24.9	0.11	<MDL	<MDL	<MDL
268	SESM-29FBC	11/4/01 11:41 AM	11/5/01 12:39 PM	1498	25.0	0.11	<MDL	<MDL	<MDL
269	SALM-30FB	11/5/01 7:07 AM	11/6/01 6:30 AM	1403	23.4	0.11	<MDL	<MDL	<MDL
270	SALM-30TB	11/5/01 7:15 AM	NA	NA	NA	NA	<MDL	<MDL	<MDL
271	CHUM-30FB	11/5/01 8:28 AM	11/6/01 7:36 AM	1388	23.1	0.10	<MDL	<MDL	<MDL
272	LJEM-30FB	11/5/01 9:30 AM	11/6/01 8:38 AM	1388	23.1	0.10	<MDL	<MDL	<MDL
273	PMSM-30FB	11/5/01 10:55 AM	11/6/01 9:56 AM	1381	23.0	0.10	<MDL	<MDL	<MDL
274	MESM-30FB	11/5/01 12:01 PM	11/6/01 11:17 AM	1396	23.3	0.10	<MDL	<MDL	<MDL
275	SESM-30FB	11/5/01 1:06 PM	11/6/01 12:16 PM	1390	23.2	0.10	<MDL	<MDL	<MDL
276	SALM-31FB	11/6/01 6:41 AM	11/7/01 6:17 AM	1416	23.6	0.11	<MDL	<MDL	<MDL
277	CHUM-31FB	11/6/01 7:51 AM	11/7/01 7:17 AM	1406	23.4	0.11	<MDL	<MDL	<MDL
278	LJEM-31FB	11/6/01 8:48 AM	11/7/01 7:35 AM	1367	22.8	0.10	<MDL	<MDL	<MDL
279	PMSM-31FB	11/6/01 10:02 AM	11/7/01 9:42 AM	1420	23.7	0.11	<MDL	<MDL	<MDL

MDL=0.009 ug/sample for MIC

DET=Value was below EQL of 0.045 ug/sample but ≥MDL.

[1]pptv at 1atm and 25^{0}C

* = sample loss on extraction

** = cartridge wet

INVALID = invalid due to unstable flow rate

Table 8 **MIC Ambient Monitoring Cartridge Results for Monterey and Santa Cruz Counties 2001**

Log #	Sample ID	Start Date/Time	End Date/Time	Time (min)	Time (hour)	Volume (m3)	MIC		
							(ug/sample)	(ug/m3)	[1](pptv)
280	MESM-31FB	11/6/01 11:35 AM	11/7/01 10:58 AM	1403	23.4	0.11	<MDL	<MDL	<MDL
281	SESM-31FB	11/6/01 12:26 PM	11/7/01 11:52 AM	1406	23.4	0.11	<MDL	<MDL	<MDL
282	SALM-32FB	11/7/01 6:26 AM	11/8/01 6:09 AM	1423	23.7	0.11	<MDL	<MDL	<MDL
283	CHUM-32FB	11/7/01 7:27 AM	11/8/01 6:57 AM	1410	23.5	0.11	<MDL	<MDL	<MDL
284	LJEM-32FB	11/7/01 8:44 AM	11/8/01 7:45 AM	1381	23.0	0.10	<MDL	<MDL	<MDL
285	PMSM-32FB	11/7/01 9:52 AM	11/8/01 8:52 AM	1380	23.0	0.10	<MDL	<MDL	<MDL
286	MESM-32FB	11/7/01 11:07 AM	11/8/01 10:07 AM	1380	23.0	0.10	<MDL	<MDL	<MDL
287	SESM-32FB	11/7/01 12:01 PM	11/8/01 12:01 PM	1440	24.0	0.11	<MDL	<MDL	<MDL

MDL=0.009 ug/sample for MIC
DET=Value was below EQL of 0.045 ug/sample but ≥MDL.
[1]pptv at 1atm and 25^{0}C

* = sample loss on extraction
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INVALID = invalid due to unstable flow rate

Table 9 **Summary of MIC Results for Monterey and Santa Cruz Counties 2001 (ug/m3)**

Sample Start Date		CHUM	LJEM	MESM	PMSM	SALM	SESM
9/8/2001	F	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
9/8/2001	B	NA	NA	NA	NA	NA	NA
9/9/2001	F	<MDL	INVALID	<MDL	<MDL	<MDL	<MDL
9/9/2001	B	NA	NA	NA	NA	NA	NA
9/10/2001	F	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
9/10/2001	B	NA	NA	NA	NA	NA	NA
9/11/2001	F	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
9/11/2001	B	NA	NA	NA	NA	NA	NA
9/17/2001	FB	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
9/18/2001	FB	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
9/22/2001	FB	<MDL	<MDL	<MDL	<MDL	DET	<MDL
9/23/2001	FB	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
9/24/2001	FB	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
9/25/2001	FB	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
9/26/2001	FB	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
9/27/2001	FB	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
10/3/2001	FB	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
10/4/2001	FB	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
10/5/2001	FB	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
10/6/2001	FB	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
10/11/2001	FB	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
10/12/2001	FB	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
10/13/2001	FB	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
10/14/2001	FB	<MDL	DET	DET	<MDL	<MDL	DET
10/20/2001	FB	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
10/21/2001	FB	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
10/22/2001	FB	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
10/23/2001	FB	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
10/27/2001	FB	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
10/28/2001	FB	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
10/29/2001	FB	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
10/30/2001	FB	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
11/4/2001	FB	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
11/5/2001	FB	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
11/6/2001	FB	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
11/7/2001	FB	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL

Maximum		**<MDL**	**<MDL**	**<MDL**	**<MDL**	**<MDL**	**<MDL**
Average		**NA**	**NA**	**NA**	**NA**	**NA**	**NA**
# Samples		**32**	**31**	**32**	**32**	**32**	**32**
# > EQL		**0**	**0**	**0**	**0**	**0**	**0**
# DET		**0**	**1**	**1**	**0**	**1**	**1**
# < MDL		**32**	**31**	**31**	**32**	**31**	**31**

Only the higher value of each collocated pair was listed in the table.

F = front
B = back
FB = front and back combined

Table 10 2001 Cartridge Collocated Results for MIC in Monterey and Santa Cruz Counties

Sample ID	MIC		
	ug/m3	Average	Rel. Diff.
SALM-2F	<MDL		
SALM-2FC	<MDL	<MDL	<MDL
CHUM-2F	<MDL		
CHUM-2FC	<MDL	<MDL	<MDL
LJEM-2F	<MDL		
LJEM-2FC	INVALID	NA	NA
PMSM-2F	<MDL		
PMSM-2FC	<MDL	<MDL	<MDL
MESM-2F	<MDL		
MESM-2FC	<MDL	<MDL	<MDL
SESM-2F	<MDL		
SESM-2FC	<MDL	<MDL	<MDL
SALM6FB	<MDL		
SALM6CFB	<MDL	<MDL	<MDL
CHUM6FB	<MDL		
CHUM6CFB	<MDL	<MDL	<MDL
LJEM6FB	<MDL		
LJEM6CFB	<MDL	<MDL	<MDL
PMSM6FB	<MDL		
PMSM6CFB	<MDL	<MDL	<MDL
MESM6FB	<MDL		
MESM6CFB	<MDL	<MDL	<MDL
SESM6FB	<MDL		
SESM6CFB	<MDL	<MDL	<MDL
SALM11FB	<MDL		
SALM11FBC	<MDL	<MDL	<MDL
CHUM11FB	<MDL		
CHUM11FBC	<MDL	<MDL	<MDL
LJEM11FB	<MDL		
LJEM11FBC	<MDL	<MDL	<MDL
PMSM11FB	<MDL		
PMSM11FBC	<MDL	<MDL	<MDL
MESM11FB	<MDL		
MESM11FBC	<MDL	<MDL	<MDL
SESM11FB	<MDL		
SESM11FBC	<MDL	<MDL	<MDL
SALM14FB	<MDL		
SALM14FBC	<MDL	<MDL	<MDL
CHUM14FB	<MDL		
CHUM14FBC	<MDL	<MDL	<MDL
LJEM14FB	<MDL		
LJEM14FBC	<MDL	<MDL	<MDL
PMSM14FB	<MDL		
PMSM14FBC	<MDL	<MDL	<MDL
MESM14FB	<MDL		
MESM14FBC	<MDL	<MDL	<MDL
SESM14FB	<MDL		
SESM14FBC	<MDL	<MDL	<MDL

Sample ID	MIC		
	ug/m3	Average	Rel. Diff.
SALM18FB	<MDL		
SALM18FBC	<MDL	<MDL	<MDL
CHUM18FB	<MDL		
CHUM18FBC	<MDL	<MDL	<MDL
LJEM18FB	<MDL		
LJEM18FBC	<MDL	<MDL	<MDL
PMSM18FB	<MDL		
PMSM18FBC	<MDL	<MDL	<MDL
MESM18FB	<MDL		
MESM18FBC	<MDL	<MDL	<MDL
SESM18FB	<MDL		
SESM18FBC	<MDL	<MDL	<MDL
SALM21FB	<MDL		
SALM21FBC	<MDL	<MDL	<MDL
CHUM21FB	<MDL		
CHUM21FBC	<MDL	<MDL	<MDL
LJEM21FB	<MDL		
LJEM21FBC	<MDL	<MDL	<MDL
PMSM21FB	<MDL		
PMSM21FBC	<MDL	<MDL	<MDL
MESM21FB	<MDL		
MESM21FBC	<MDL	<MDL	<MDL
SESM21FB	<MDL		
SESM21FBC	<MDL	<MDL	<MDL
SALM25FB	<MDL		
SALM25FBC	<MDL	<MDL	<MDL
CHUM25FB	<MDL		
CHUM25FBC	<MDL	<MDL	<MDL
LJEM25FB	<MDL		
LJEM25FBC	<MDL	<MDL	<MDL
PMSM25FB	<MDL		
PMSM25FBC	<MDL	<MDL	<MDL
MESM25FB	<MDL		
MESM25FBC	<MDL	<MDL	<MDL
SESM25FB	<MDL		
SESM25FBC	<MDL	<MDL	<MDL
SALM29FB	<MDL		
SALM29FBC	<MDL	<MDL	<MDL
CHUM29FB	<MDL		
CHUM29FBC	<MDL	<MDL	<MDL
LJEM29FB	<MDL		
LJEM29FBC	<MDL	<MDL	<MDL
PMSM29FB	<MDL		
PMSM29FBC	<MDL	<MDL	<MDL
MESM29FB	<MDL		
MESM29FBC	<MDL	<MDL	<MDL
SESM29FB	<MDL		
SESM29FBC	<MDL	<MDL	<MDL
		Average =	**<MDL**

* = sample loss on extraction

** = cartridge wet

Table 11. MITC Lab Spike Results

Sample ID	MITC		
	Expected (ug/sample)	Actual (ug/sample)	Percent Recovery
Spike1	12.00	6.48	54%
Spike 2	12.00	7.62	64%
Spike 3	12.00	6.99	58%
Spike 4	12.00	5.91	49%
Spike 5	12.00	6.48	54%
Spike 6	12.00	6.84	57%
Spike 7	12.00	6.45	54%
Spike 8	12.00	7.17	60%
		Ave.=	**56%**

Table 12. MITC Trip Spike Results

Sample ID	MITC		
	Expected (ug/sample)	Actual (ug/sample)	Percent Recovery
SEST-1TS	12.0	6.09	51%
SALT-10TS	12.0	6.99	58%
SALT-17TS	12.0	6.81	57%
SALT-26TS	12.0	6.69	56%
		Ave.=	**55%**

Table 13. MITC Field Spike Results

Sample ID	MITC		
	Expected (ng/sample)	Actual (ng/sample)*	Percent Recovery
SALT-1FS	12.0	6.09	51%
SALT-10FS	12.0	6.99	58%
SALT-17FS	12.0	6.81	57%
SALT-26FS	12.0	6.69	56%
		Ave.=	**55%**

Table 14. Chloropicrin Lab Spike Results

Sample ID	TCNM		
	Expected (ng/sample)	Actual (ng/sample)	Percent Recovery
Spike1	120	79.8	67%
Spike 2	120	86.9	72%
Spike 3	120	107.3	89%
Spike 4	120	84.1	70%
Spike 5	120	112.6	94%
Spike 6	120	105.2	88%
Spike 7	120	112.7	94%
Spike 8	120	101.6	85%
		Ave.=	**82%**

Table 15. Chloropicrin Trip Spike Results

Sample ID	TCNM		
	Expected (ng/sample)	Actual (ng/sample)	Percent Recovery
SESL-1TS	120.0	104.3	87%
SALL-10TS	120.0	108.5	90%
SALL-17TS	120.0	107.8	90%
SALL-26TS	120.0	106.7	89%
		Ave.=	**89%**

Table 16. Chloropicrin Field Spike Results

Sample ID	TCNM		
	Expected (ng/sample)	Actual (ng/sample)*	Percent Recovery
SALL-1FS	120.0	121.7	101%
SALL-10FS	120.0	113.2	94%
SALL-17FS	120.0	118.3	99%
SALL-26FS	120.0	101.1	84%
		Ave.=	**95%**

*Corrected by subtracting the concentration found in the corresponding collocated sample.

Table 17. MIC Lab Spike Results

Sample ID	MIC		
	Expected (ng/sample)	Actual (ng/sample)	Percent Recovery
Spike1	0.6	0.870	145%
Spike 2	0.6	0.840	140%
Spike 3	0.6	0.750	125%
Spike 4	0.6	0.780	130%
Spike 5	0.6	0.750	125%
Spike 6	0.6	0.840	140%
Spike 7	0.6	0.690	115%
Spike 8	0.6	0.750	125%
Spike 9	0.6	0.510	85%
		Ave.=	**126%**

Table 18. MIC Trip Spike Results

Sample ID	MIC		
	Expected (ng/sample)	Actual (ng/sample)	Percent Recovery
SESM-2TS	0.6	0.930	155%
SALM-10TS	0.6	0.870	145%
SALM-17TS	0.6	0.810	135%
SALM-26TS	0.6	0.750	125%
		Ave.=	**140%**

Table 19. MIC Field Spike Results

Sample ID	MIC		
	Expected (ng/sample)	Actual (ng/sample)*	Percent Recovery
SALM-1FSF	0.6	0.870	145%
SALM-10FSFB	0.6	0.840	140%
SALM-17FS	0.6	0.81	135%
SALM-26FS	0.6	0.78	130%
		Ave.=	**138%**